Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 151 No. 8 February 24, 1947

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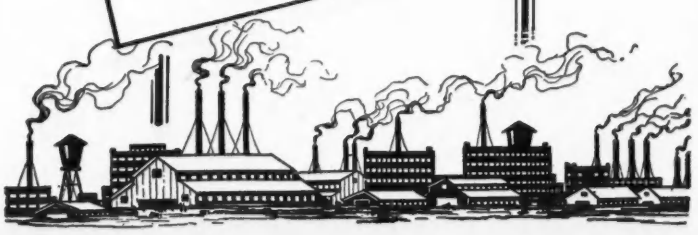

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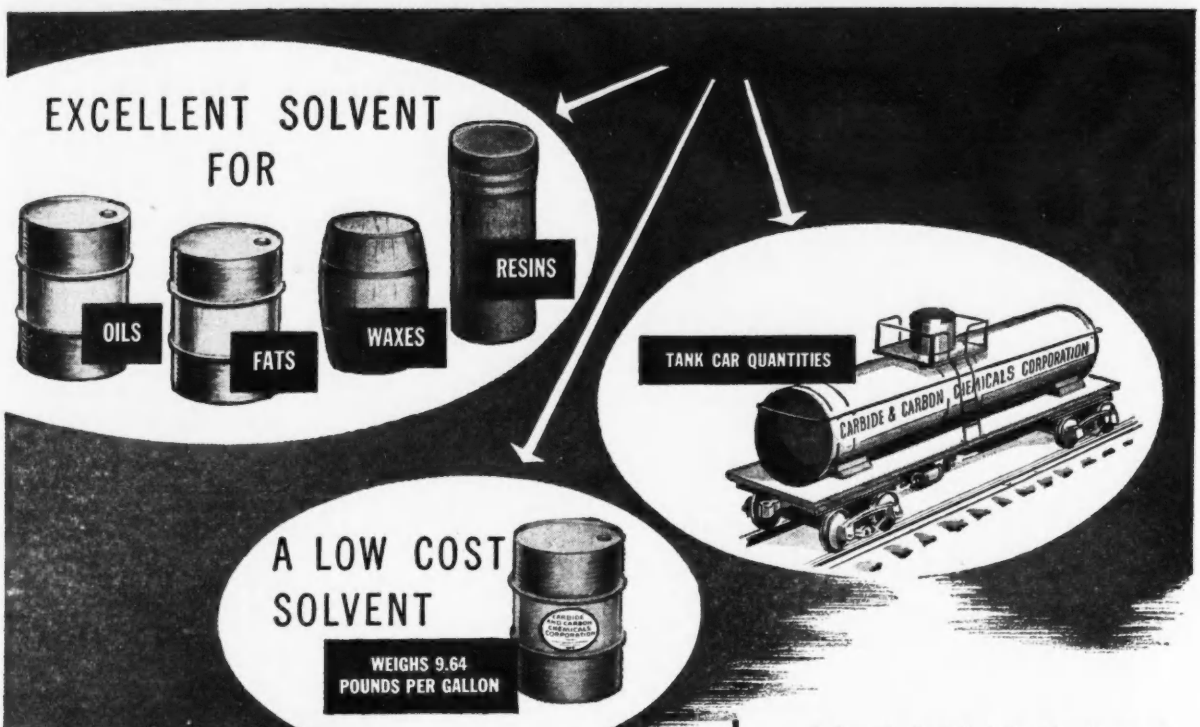

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SYNTHETIC ORGANIC CHEMICALS

Oil, Paint and Drug Reporter

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Army-Navy Merger On Purchases Asked

OPD Washington Bureau

Legislation to end overlapping of procurement operations of the Army and Navy in purchases of drugs and medical supplies, petroleum, critical materials for reserve stock and other articles of a standardized nature was introduced in the house last week by Representative Carl Vinson of Georgia. The bill (H.R. 2006) is understood to have the support of both services and has been referred to the house committee on armed forces for consideration.

Under its terms a joint army and navy procurement board of five members would be established with sole authority to do the purchasing for the two services. The board would be headed by a civilian receiving compensation at the rate of $15,000 annually and be composed of two officers from the Army and two from the Navy.

While the measure is in anticipation of the merger of the two services it would become effective immediately upon passage, whether the merger had been completed or not. The bill specifies the particular commodities which would be subject to procurement solely by the joint board, but at the same time authority is given the board to purchase any other commodity, and also to issue rules standardizing the specifications for materials purchased for the two services.

Specifically named in the bill are the following articles which no longer could be purchased by either the Army or Navy separately, but only by the joint board:—

All petroleum and petroleum products, all materials for the construction of buildings, all textiles, all clothing and shoes, all drugs, medical and surgical, supplies, all food and subsistence stores, all ammunition, all small arms, all real estate and interest in land, all motor-propelled vehicles having a commercial chassis, all tires, all critical materials for reserve stocks and all furniture and office supplies.

Helium Industrial Research Fund Sought

OPD Washington Bureau

Congress has been requested by the Bureau of Mines to appropriate $100,000 for research in industrial uses for helium gas during the fiscal year 1948. The amount is the same as that appropriated for the current fiscal year, which was the first time that any funds had been made available for this work.

While the bureau has conducted research in helium ever since the government monopoly over this gas was established twenty-five years ago, it was not until last year that work was started by the bureau itself in finding new uses for the gas. Industry, however, has been doing considerable research of this nature.

Two projects are now underway at the bureau's Amarillo, Tex., plant, one directed toward improving the purity of the gas and the other to develop means for using it in welding operations. Officials believe a vast field is open for use of helium in welding, particularly in the welding of magnesium, aluminum and stain-

—*Continued on page 37*

Potash Allocation Order Revoked

OPD Washington Bureau

Allocation of potash was ended February 17 by the Civilian Production Administration. The action, which revoked Schedule 120 to Order M-300, does not affect allocations already made for the period ending March 31, CPA said, since all users now have contracts with producers for their potash quotas for the current fertilizer period.

Trade Pact N.Y. Hearings at Astor

OPD Washington Bureau

The Department of State has announced that the informal hearings in New York, February 27-28, on the proposed charter for an International Trade Organization will be held at the Astor hotel's north ballroom on the eighth floor. The hearings are intended to assist agencies of the government to obtain a full expression of American opinion in preparation for the April 8 meeting of the preparatory committee on trade and employment, created by the Economic and Social Council of the United States on February 18, 1946.

Fertilizer Probe By Senate Dropped

OPD Washington Bureau

Senator Hugh Butler of Nebraska has decided not to press for action at this time on his resolution (S. Res. 78) for an investigation of the causes of the fertilizer shortage in view of the inquiry made into the situation recently by the house committee on agriculture.

In a brief address on the floor of the senate last week, the senator complimented the report of the house committee highly and said that the committee had done a thorough job of analyzing the problem.

He placed particular stress on the committee's recommendation that the Army immediately repay the fertilizer borrowed from the civilian supply last year and that such fertilizer be made available to the farmers.

Boxcar Shortage Parley Scheduled

OPD Washington Bureau

A plan for obtaining 10,000 new boxcars monthly in an effort to relieve the severe shortage will be discussed at a meeting of industrialists and government officials to be held here this week.

Tariff Pact List Broadened To Include More Chemicals

OPD Washington Bureau

The Department of State has broadened its list of products which will be subject to tariff discussion in the negotiations of reciprocal trade agreements with eighteen nations next Spring to include additional items in the chemical field, and the metals and textile fields.

Among the items included in a supplemental list of new products to be subject to negotiation were the following with their 1930 tariff act paragraph numbers:—

Par. 5—Eucalyptol; selenium dioxide; tellurium compounds.

Par. 6—Ammonium aluminum sulphate or ammonia alum; aluminum salts and compounds not specially provided for.

Par. 23—Articles specified in this list under paragraph 5, when imported in capsules, pills, tablets, lozenges, troches, ampoules, jubes, or similar forms, including powders put up in medicinal doses.

Par. 26—Thymol obtained or derived from eucalyptus oil.

Par. 28—(a) Saccharin.

Par. 41—Pectin.

Par. 226—Lenses of glass or pebble, molded or pressed, or ground and polished to a spherical, cylindrical, or prismatic form, and ground and polished plano or coquille glasses, wholly or party manufactured: Any of the foregoing (except lighthouse, spectacle, and eyeglass lenses), with edge sground or beveled.

Par. 505—Lactose.

Par. 701—Tallow, inedible.

Par. 1001—Crin vegetal, twisted or not twisted.

Par. 1407—(a) Handmade paper and paper commonly or commercially known as handmade or machine handmade paper, aend paper similar to the foregoing, weighing eight pounds or over per ream, not ruled, bordered, embossed, printed, lined, or decorated in any manner, or if ruled, bordered, embossed, printed, lined, or decorated in any manner, whether in the pulp or otherwise, other than by litographic process.

Announcement was made by the Committee for Reciprocity Information that hearings will be held on the supplemental list March 20. The final date for submitting written information and applications for appearance at the hearings is March 18. The hearing will be held in the hearing room of the Tariff Commission. Ten copies of written statements, of which one copy must be sworn to, must be filed with the committee.

Argentine Linseed Oil Buyers Listed

OPD Washington Bureau

The following eleven concerns shared in the purchase of the 40,000 tons of Argentine linseed oil recently offered to the crushers by the Department of Agriculture at a price of 36¾ cents per pound, it was stated at the Department. Officials, however, refused to divulge the amount of oil received by each:—

The Brown Oil & Chemical Corporation, Staten Island, N. Y.; Bisbee Linseed Company, Philadelphia; Northwest Linseed Company, Minneapolis; Pacific Vegetable Oil Corporation, San Francisco; Minnesota Linseed Oil Paint Company, Minneapolis; Cargill, Inc., Minneapolis; Sherwin-Williams Company, Cleveland; Spencer Kellogg & Sons, Buffalo; National Lead Company, New York city; Archer-Daniels-Midland Company, Minneapolis; and Pittsburgh Plate Glass Company, Pittsburgh.

DCAT to Hear Brewster March 13

Senator Owen Brewster, Maine, will be the guest speaker at the twenty-first aennual dinner of the Drug, Chemical and Allied Trades Section, to be held in the Waldorf-Astoria March 13.

Senator Brewster will address the gathering of drug and chemical leaders on the subject of foreign relations. Indications are that the dinner will be sold out, as a total of 2,100 reservations have already been received. As in the past, this will be a "black tie" affair, with price of the tickets $15 each.

Management-Labor Council Proposed

OPD Washington Bureau

The creation by law of a permanent national management-labor council to make continuing studies of industrial relations is recommended in a statement of national policy has been made public by the research and policy committee of the Committee for Economic Development.

Under the CED's proposal, the council, whose members would be appointed by the President, subject to confirmation by the senate, would work with a greatly strengthened Federal Mediation Service, which the CED also recommends be established.

The proposed council would be required to report annually to the President on the state of industrial peace throughout the nation, to confer regularly with the Secretaries of Labor and Commerce and the chairmen of the senate and house labor committees, to advise the director of mediation on matters of policy and to approve the appointment of all mediators.

Two other recommendations, designed to make collective bargaining work better in this country, highlight the statement. One is that no strike be called or strike vote taken until bargaining has had a chance to function and the mediation service an opportunity to settle the dispute. The other would require that differences arising from the interpretation of the terms of agreements be arbitrated.

Price Trend Breaks for Loss

Higher price views continued in the majority in the markets for chemicals, oils, and drugs last week; but, the lower ones were much more substantial, and the general average was reduced more than it had gained over the preceding three weeks. The depressing influence was exerted chiefly by imported materials—essential oils, botanical drugs, and sizings—for the most part because steadily increasing supplies had got ahead of demand, although in some instances, notably casein, buyers' resistance to prices was the cause. The essential oils price index dropped below its 1946 level.

The heaviest upward push was again in domestic fatty oils, where supplies are almost nil. Castor oil came into the movement last week. The price index is 57.8 percent higher than a year ago. Other pushers were corn derivatives, responding to the higher pricing of cash grain, egg yolk and gum rosin, also reflecting the upward trend of agricultural products. Agricultural chemicals would be higher if there were any to sell. The predicted importation of French potash was met with an avalanche of inquiries. Russian feelers were passed up because of inflated price ideas.

Most heavy chemicals are steadily falling shorter in deliveries. Excessive demand is basically the reason, but its influence is greatly aggravated by the inadequancy of containers and cars. The coaltar advances reached to solvent naphtha. No relief from the stringency of bases was sighted or expected. Producers are applying rather close allocation methods—the same is true in alkalies and the like—and "outside" orders are piled up for months in both sections.

The copper situation has tightened again. Arsenic is sold up; the price of magnesium arsenate was advanced, so was that of thallium sulphate. The tightening of supplies of metals forced up bismuth—its salts are shortly to follow—and cadmium. The easing of quicksilver was reflected in reductions in hard mercurials. Strontium iodide was an odd reduction.

Brazilian influence upped menthol again. Brazilian waxes were lower. Higher production costs and inadequate production brought higher quotations in technical pentaerythritol, propionic and isobutyric aldehydes, and camphoric acid. Ground mica and vegetable tanstuffs were higher among bulk goods.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Feb. 20, 1947	Feb. 13, 1947	Feb. 20, 1946
151.3	**152.0**	**135.8**

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.3	133.0	107.8
Year's av'age		138.8	133.3	123.2

Streptomycin Pretesting Introduced in House

OPD Washington Bureau

The bill of the Food and Drug Administration providing for the pretesting of streptomycin was introduced in the house last week by Representative Charles A. Wolverton of New Jersey. The bill (H. R. 2045) was referred to the Interstate and Foreign Commerce Committee.

Drugs Freight Rates Reclassification Proposed

OPD Washington Bureau

A change in the present methods of computing railroad freight rates on drugs, medicines and chemicals from the existing system of commodity classification to a valuation per pound basis, is reported to be under consideration by railroad executives.

Definite information on the proposal is lacking in Washington, but it is said to have been approved by the executives and will be submitted for public hearings in March. It is thought that the proposal emanates from the work of the classification committee now in session in Chicago seeking to draft a uniform classification of railroad freights.

The proposal would constitute a radical departure from the present basis of rate computation. According to the transportation committee of the American Drug Manufacturers Association, it has the "aspects of great danger to our cost of distribution and, in addition to that, to the cost of recording and handling shipments."

Drugs, medicines and chemicals, presently move under what is known as an exception rating, generally on the basis of third class for less than carlots, and fifth class for carlots. Information received by the ADMA committee states that the proposal of the carriers is to predicate the rates upon the value of shipments on the following basis:—

Value per pound	l.c.l.	c.l.
Under 40 cents...	2nd	col. 45
40 cents to $1.....	1st	col. 55
$1 to $2.50.....	1½x1st	col. 85
$2.50 to $5.....	2x1st	1¼x1st
$5 to $7.50.....	3x1st	2x1st
Over $7.50.....	not accepted	not accepted

Hydrocarbon Research To Cost $50,000,000

An expenditure approximating $50,000,000 will be made on hydrocarbon research by the petroleum industry, Dr. Monroe E. Spaght, vice-president of the Shell Development Company, New York, told the meeting of American Section of the Society of the Chemical Industry, held in New York, February 20.

The need for such a research program, Dr. Spaght said, arises from the necessity to maintain and develop an adequate supply of raw material. Current sources of petroleum used at present domestic rate he said, would last twelve to fifteen years, and that this would be supplemented by further discoveries of oil deposits.

The conversion of natural gas to liquid hydrocarbons by such methods as the Fischer-Tropsch process Dr. Spaght said will extend the supply of these materials for another ten or twelve years. In addition, he said, the conversion of coal to liquid hydrocarbons by the same essential process will make possible an indefinitely much longer availability of liquid hydrocarbons. Such a research program must also include studies to improve existing processes, the improvement in quality and extension of uses for existing materials, the development of new processes, and the

—*Continued on page 37*

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Carbon tetrachloride, Vilvorde, Belgium (F-5).

Chemicals, heavy, Melbourne, Australia (F-1); Cairo, Egypt (F-3).

Chromium oxide, Vilvorde, Belgium (F-5).

Disinfectants, Bologna, Italy (F-7).

Dyes and colors, Bologna, Italy (F-7).

Fertilizers, Arezza, Italy (F-9).

Ghee plant machinery, Singapore, British Malaya (F-10).

Glucose, Damascus, Syria (F-11).

Graphite, Vilvorde, Belgium (F-5).

Graphite electrodes, Turin, Italy (F-8).

Insecticides, Bologna, Italy (F-7); Arezzo, Italy (F-9)

Lampblack, Vilvorde, Belgium (F-5).

Oil filters, Melbourne, Australia (F-1).

Ozokerite, Vilvorde, Belgium (F-5).

Pharmaceuticals, Arezzo, Italy (F-9).

Plastic sheets, Melbourne, Australia (F-2).

Polishes, Bologna, Italy (F-6).

Soap, Couvin, Belgium (F-4); Bologna, Italy (F-7).

Turpentine, Vilvorde, Belgium (F-5).

Varnishes, Bologna, Italy (F-6).

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Hazardous Cargoes Rules Hearing Set

OPD Washington Bureau

The United States Coast Guard announces that it will hold hearings March 26 to 28 on a number of changes in its regulations, including those covering the stowage of dangerous cargoes.

It is proposed to amend the present rules covering loading and unloading or transport of Class A explosives by the addition of a new requirement that the present application for a permit to load explosives submitted to the captain of the port shall be accompanied with a preliminary dangerous cargo stowage plan and detailed manifest of other dangerous cargo proposed to be loaded on board the vessel.

Amer. Potash Elects Colfax President

Peter Colfax, executive vice-president of the American Potash & Chemical Corporation, New York, has been elected president of the company. Mr. Colfax an executive of the company since 1935, succeeds Frederic Vieweg, who resigned after twenty-eight years service. Mr. Vieweg will remain on the board of directors and also will serve as a consultant.

USP Subcommittee To Meet Feb. 24-25

A meeting of twenty-five members of the subcommittee of the committee on scope of USP revisions will meet in Atlantic City February 24-25. The subcommittee will determine which of the drugs and medicines now in the United States Pharmacopoeia should be deleted from the 1950 edition and which new items should be included.

Surplus Materials, Equipment Offered

The following items in the categories of chemicals and related materials and commodities are included among the offerings in current sales by the War Assets Administration:—

Alcohol, denatured, C.D. 1, 1,588 gallons, 60 cents per gallon; Philadelphia, PHO-71-449.

Alum, ammonia, nut, 56,500 pounds, 1 cent per pound; Philadelphia, PHO-71-449.

Calcium carbide, 6,100 pounds, $2.32 per 100 pounds; Philadelphia, PHO-71-449.

Collodion, iodizer, 1,400 gallons, $2 per gallon; Philadelphia, PHO-71-449.

Creosote, coaltar, 80-85 percent, 400 pounds, 15 cents per pound; Philadelphia, PHO-71-449.

Creosote oil, 50-55 percent, 4,638 gallons, 30 cents per gallon; Philadelphia, PHO-71-449.

Cyclohexanone acid, 3,200 pounds, 24

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Bids Wanted

Acids, boric, chromic, hyrdochloric, Army Air Corps (Dayton, Ohio) invitation 355, March 4.

Collodion, 1,050 gallons, Army Map Service (Washington 16, D. C.) invitation 17, March 5.

Dishwashing compound, 21,300 pounds, Department of Justice (Washington, D. C.) invitation 3862, March 6.

Drugs and chemicals, Veterans Administration (Washington 25, D. C.) invitation A-4, February 28.

Dyes, cotton-wool, 13,500 pounds, Army Quartermasters (New York City) invitation 114, February 28.

Enamel thinner, 105,000 gallons, Army Ordnance Department (Raritan Arsenal, N. J.) invitation 114, March 3.

Hydroquinone, C. P., 4,896 pounds, Army Air Corps (Dayton, Ohio) invitation 370, March 4.

Lime, 50,000 pounds, Veterans Administration (Dayton, Ohio) invitation 47-304, February 28.

Linseed oil, raw, and linseed replacement oil, Treasury Department (Washington, D. C.) invitation 5W-48678-R, February 27.

Lubricating grease, 2,070 pounds, Post

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Market Reports

Bismuth salts prices were advanced late last week to conform to the higher production costs that resulted from the 20c. rise in bismuth metal, which became $2 per pound. New prices named by one producer last Friday were: Subcarbonate, $2.60 to $2.63 per pound; subgallate, $2.45 to $2.48; subnitrate, $2.15 to $2.18; and subsalicylate, $3.05. Revision of the whole group of salts will be effected early this week.

Ginger oil, distilled, was reduced 50c. per pound on the inside late in the week, with offerings ranging from $10 to $14 per pound.

Lavender oil, Spanish spike, pure, was reduced 20c. per pound on the inside last week with stocks being offered in a range from $1.85 to $3.10 per pound.

Linalool prices dropped 50c. per pound on the inside late last week as the derivative was quoted from $6.75 to $7.60 per pound.

Linseed Oil—Buenos Aires, Feb. 21—Shipments of linseed oil totaled 1,661 tons to the United States last week. None to other countries. No flaxseed shipments were made.

Mercurial producers, in some instances late last week, had yet to announce lower quotations although other makers had reduced prices early in the period. However, all manufacturers indicated that new and lower prices were in the making.

Paper Production—Percentage of six-day capacity was 106.3 in the week ending February 14, according to the American Paper and Pulp Association. This compares with 106.2 the previous week and 95.0 percent a year ago.

Saltpeter—Higher prices have been made effective for saltpeter. The market for 10-ton lots of granular is quoted at $9.00 and $10.00 per 100 pounds for powdered, New York. A minimum delivery charge will be made for shipments of less than 500 pounds.

Savin oil was offered at prices 50c. per pound lower on the inside late last week in a range from $5.75 to $16 per pound.

Teaseed Oil—Some 200 drums of teaseed oil and 300 drums of tung oil en route to New York on the S.S. Stag Hound, were completely smashed in a storm at sea and were reported a total loss.

Wormseed oil prices dropped 20c. per pound on the inside, establishing a range from $5.35 to $6.75 per pound.

Nitrocellulose Export Regulation Eased

The embargo against shipment of arms, ammunition and implements of war out of the country without an export permit, which has been in effect since April 9, 1942, has been modified to exempt nitrocellulose having a nitrogen content of 12.2 percent or less. Heretofore, the embargo applied to the material containing more than 12 percent nitrogen.

The modification is contained in a new proclamation issued February 15 by President Truman, effective February 20. The proclamation restates the items in the chemicals field requiring export permits as follows:—

Mustard gas (dichloroethyl sulphide); Lewisite (chlorovinyldichloro-

—*Continued on page 37*

Witco Augments Stearates Output with Chicago Unit

To fulfill growing requirements for metallic stearates, the Witco Chemical Company, New York, is constructing at its present plant in the Clearing District of Chicago a stearates manufacturing unit to serve the midwest area. The plant is expected to begin operations May 1. The new unit will mark further expansion of Witco in the stearates field and supplement the production of its present plant in Brooklyn, N. Y.

National Fertilizer Ass'n To Meet June 20-21

The National Fertilizer Association will hold its annual meeting in the Essex-Sussex hotel at Spring Lake, N. J., June 20-21.

Canadian Fertilizer Boxcar Relief Sought

OPD Washington Bureau

A modification of a Canadian order requisitioning boxcars previously used for moving fertilizer materials from Canada to the United States to make them available for the movement of grain was urged last week by Clifton A. Woodrum, president of the American Plant Food Council.

Transportation difficulties beyond the control of the fertilizer industry have already seriously reduced some fertilizer supplies, Mr. Woodrum said, and the Canadian order giving top priority to grain shipments adds an additional bottleneck at a time when our farmers must have plant foods for top dressing and plantings.

In a telegram to B. S. Liberty, Transport Controller, Ottawa, Mr. Woodrum pointed to the seriousness of the action of stopping movement of the Canadian fertilizer materials just before planting time in view of the delay in shipments of Chilean nitrates, and asked that the exception now granted to newsprint be extended to fertilizers.

Monopolies Probe Proposed in Senate

A broad investigation, by the senate judiciary committee, of monopolies and monopolistic practices, is proposed in S. Res. 82 introduced by Senators Wayne Morse, of Oregon; George D. Aiken, of Vermont; William Langer and Milton R. Young, of North Dakota; James E. Murray, of Montana; Glen H. Taylor, of Idaho, and Harley M. Kilgore, of West Virginia.

Under the resolution the committee would make a full and complete investigation of the extent of monopoly and monopolistic practices in industry, trade, and agriculture; the effect of these practices in employment, production, and purchasing power; the effectiveness of present federal functions in controlling or eliminating monopolies.

They would also study the need for improved federal functions to develop a consistent and coordinated anti-monopoly program; to foster competitive private enterprise, prevent the development of monopolies, and, where such development has taken place, to work toward the elimination of monopolistic practices; and to protect the public interest through effective methods of public control of monopolies.

Chemical Data Compiled by MCA

A four hundred page manual of "Chemical Facts and Figures" which includes all significant chemical statistics published by official agencies since 1940 was issued last week by the Manufacturing Chemists' Association. The manual is the second edition of the association's statistical yearbook, originally published in 1940.

Copies may be obtained from the association's office, 608 Woodward building, Washington 5, D. C. at $2 each, postpaid in the United States. Remittance should accompany the order.

Included under one cover are factual data, graphs and statistics relating to organic and inorganic chemical production, sales, wholesale prices, foreign trade, research, employment, wages, finance, taxes, safety, minerals, and production and sales of allied products such as plastics, synthetic rubber and fertilizer materials.

In general, the second edition takes up where the first edition left off and does not duplicate data previously published in the latter. Where available, statistics are included for the period of 1940 through 1945, with some data also included for the first six months of 1946. In some cases, similar data are reported from more than one source, and some variation in the figures will be noted.

P.H. Coombs Resigns Materials Supply Post

Philip H. Coombs has resigned as deputy housing expediter in charge of materials supply. His assistant, Harry L. Smith has been named acting head of the materials supply office. Mr. Coombs will become associate professor of economics at Amherst College next fall.

P.A.'s-Eye View of Business

Composite view, February 24, of purchasing agents composing the Business Survey Committee of National Association of Purchasing Agents

The volume of business is continuing at high levels reported in January and is generally considered very good by purchasing agents. However, mixed conditions on new business show up in the February reports, for those showing further increases are balanced by others reporting some decline. By far the larger percentage reports continuing high production. Optimism is expressed that labor difficulties will not retard the present high output.

Heavy backlogs of orders and favorable production prospects are pointed to as assuring a good volume of business through the first half of the year.

Commodity Prices

While prices have continued to advance, the over-all effect on industrial commodities is very slight. Buyers report markets are stabilizing and prices generally seem to have passed their peak. Supply is catching up with demand; more salesmen are calling; competition is developing rapidly in many lines; a switch from the sellers' to a buyers' market is forecast in the near future.

Inventories

The trend is definitely toward lower stocks, though the reduction is gradual. It will take several months to reduce to carefully scheduled operating levels. There is considerable unbalance in a number of lines, particularly items for assembly production. The "take anything any time" phase of procurement is rapidly passing. Purchasing agents must negotiate more realistic delivery schedules and, in some instances, are resisting acceptance of deliveries earlier than called for.

Manufacturing schedules are being adjusted to the materials available, thus obtaining a better balance in raw material and purchased part inventories, as well as the quantities tied up in process.

Buying Policy

The continuing trend to shorter-term commitments is favored by improved production, better balanced inventories and production schedules. A greatly reduced use of price escalator provisions is reported; also, more numerous offers of firm-price quotations for nearby delivery and extending for longer periods, especially in heavy goods. There may be "breakers ahead" for some long-term buyers—and caution is considered advisable.

Specific Commodity Changes

Among the important commodities advancing in price this month are paper and paper products. Supply remains short of demand, which continues to increase.

Another commodity causing a lot of comment is copper. There is the unusual situation of a split market price—producers at 19½c., custom smelters at 20½c. The world supply is considerably short of world demand. With 4c. duty on foreign copper, and the Government stockpile at its lowest point, many users believe the only relief can come from elimination of the duty so as to permit free importation of copper until domestic production can meet the demand.

Malleable iron and gray iron castings are in short supply; so are coking coal and gas. Drying oils and white lead are hard to get. Small

—*Continued on page 39*

Washington Talks It Over

The OPD Observer

Washington spokesmen for industry and trade are talking of a business recession later this year, due, not to any shortage of materials or labor, but rather to the mess that the country is now finding itself in the matter of railroad transportation. They say that, if the recession occurs, much of the blame can be placed squarely on the way the boxcar situation has been handled.

The supply of freightcars is at its lowest ebb of any time since before the war and is being made more aggravating by the order of ICC, issued at the direction of the White House, requiring all boxcars of Western line ownership to be returned immediately to the West for grain haulage. String after string of the cars is moving out of the producing centers of the East empty. For some unexplained reason, the roads are prohibited from picking up any traffic moving in the same direction.

Here are three examples of how this order is affecting industry:—(1) One of the biggest soda ash producers in the East, which needs a minimum of seventy cars daily is getting only thirty-eight; (2) an insecticide producer who needs ten cars a day to ship his insecticides to the agricultural belt—and this is the season of heaviest agricultural insecticide movement—is getting only three cars a day; (3) there is no shortage of bicarbonate of soda, but one of the largest baking powder producers in the East is getting only one-quarter of his needs because suppliers can't get enough boxcars.

Chemical Statistics Cataloged

A long-felt need of the chemical industry for an index to the government's storehouse of chemical statistics is soon to be filled by the Department of Commerce. A booklet showing what statistics in the chemical field are available and where they can be obtained is now on the presses and will be issued shortly.

It will be issued as part of the "Industrial Series" of the department under the title, "Chemical Statistics Directory." It is an index of government statistics for the industry for 1945 and was compiled by L. N. Markwood, F. M. Hoffheins, Susan M. Phillip, and Louise Evans under the general direction of C. C. Concannon, chief of the chemicals and drugs unit of the department.

Included in the directory will be references to state data on basic chemicals and chemical products found in published reports of the Federal agencies. Commodities included are those in the chemical and drug groups of the Standard Commodity Classification, with the exception of synthetic fibers. Also included are some oils, waxes, crude drugs, natural gums and resins, and minerals which are raw materials for chemical products.

Business Census Advocated

There is a good chance that Congress may take action this year to provide for a new census of commerce and industry to fill the postwar need for this information. At least two bills (S. 554 and H.R. 1821) have been introduced providing for such a census, and indications are they will be given attention by the committees shortly.

Efforts to provide for such a census last year failed, largely because of Republican opposition on the grounds that it wouldn't provide industry with any usable information because business was still too much in a turmoil of reconversion. The need for up-to-date census information is growing.

Penicillin Saves Turkeys

A new and valuable use for penicillin has been found by the Department of Agriculture, which may open an entirely new marketing field for the producers of the drug. Experiments indicate, the department reports, that penicillin is highly effective in saving turkeys that have become infected with the swine-erysipelas organism, to which turkeys as well as swine are susceptible. The infection in turkeys usually attacks the flock just before marketing, when the birds are most valuable.

Turkey-raisers undoubtedly will be pleased to learn of this important de-

—*Continued on page 32*

Wartime Controls Termination Asked

OPD Washington Bureau

Congress was urged last week by President Truman to repeal twenty-four statutes effective under the emergency proclamations of 1939 and 1941 in a further move to free the country of wartime legislative controls. At the same time, the President directed the heads of executive departments and agencies to discontinue not later than March 15 the exercise of powers under thirty-six laws which come into play when emergencies are declared.

The President's action is the third step he has taken to do away with wartime statutory restrictions. Several weeks ago he fixed the terminal date of one group by declaring that hostilities should be considered ceased Later he asked for limited extension of the Second War Powers Act which will leave only a skeleton of that law—including rationing laws—in effect after June 30.

Many of the laws affected by the latest action will have only limited application, but are important to the fields which they relate. He proposed among others, immediate repeal of laws permitting the tax-free withdrawal of alcohol for industrial use; leasing of merchant ships to other nations; lease of public lands for munitions manufacture and appointment of enlisted men to the Naval Academy.

Among the major statutes which would be allowed to lapse on an end-of-emergency proclamation would be the Army's streamlined procurement power under which supplies can be purchased without advertising for bids; the power to transfer the Coast Guard to the Navy; to increase the authorized strength of the Navy, and to initiate measures to increase the market quotas for corn, wheat, cotton, rice, tobacco or peanuts.

President Truman explained that the progress of reconversion made possible the action which he recommended and that his suggestion "will, if accepted, materially assist in further freeing the country of war controls and will help make possible an early ending of the emergency." He added that he is studying the question of terminating the 1939 and 1941 emergency laws and "intended to take action as soon as the circumstances permit."

Lecithin 'Trust' Case Won by Government

OPD Washington Bureau

Attorney General Tom C. Clark announced February 17 that a consent judgment had been entered at Federal District Court, Cleveland, "eliminating restraints in the manufacture and sale of lecithin."

Mr. Clark said the judgment was entered against the American Lecithin Company, Elmhurst, Long Island, N. Y.; Archer-Daniels-Midland Company, Minneapolis; Glidden Company, Cleveland, and Ross & Rowe, Inc., New York. The judgment, he said, ends "various illegal domestic arrangements and an international cartel agreement, involving American, German and Danish producers of lecithin.

The original suit, filed June 24, 1946, charged the companies restrained trade by pooling of lecithin patents through the Elmhurst firm, and using Ross & Rowe as exclusive selling agent by Archer-Daniels-Midland and Glidden.

Last week's judgment, according to Mr. Clark, enjoins the defendants from participating in common selling or purchasing agreements; requires American Lecithin Company to license a group of its patents on a royalty-free basis, and the remainder of its patents at uniform reasonable royalties; ends various illegal domestic agreements and the cartel agreement, and enjoins future price-fixing and division of fields, customers or markets among the defendants.

Plant Food Council To Meet June 13-15

The annual meeting of the American Plant Food Council will be held at the Homestead, Hot Springs, Va., on June 13-15.

How "heart" disease begins

...in Trees!

The sharp edge of a boy's knife, a bruising blow from a lawn mower or a passing van, often open the way for infectious disease in trees. In recent years, a fungus disease known as canker stain destroyed great numbers of London planetrees, an otherwise hardy kind of sycamore found in many Eastern cities.

Department of Agriculture scientists found that the disease was spread largely by contaminated pruning tools. These picked up the fungus from an infected tree and carried it to a healthy one in the next pruning operation.

Taking a leaf from medicine, these Government scientists applied the principles of antisepsis to the problem. By sterilizing pruning knives and saws in alcohol, they showed that the spread of canker stain can be prevented.

Alcohol—the kind that sterilizes pruning tools as well as the kind used to make the costliest perfumes —is one of many CSC products for agriculture, medicine and industry.

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Industrial Application Of Chemicals

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Diphenylcyanoarsin

(Additional uses—supplementary to information in the book, Uses and Applications of Chemicals and Related Materials)

Miscellaneous—As a poison gas in chemical warfare and police operations.

Paradivinylbenzene

Plastics—Starting point (Brit. 481725, divided out of Brit. 480341) in making insulating materials by polymerizing either by heat treatment or by exposure to light, if necessary in the presence of a catalyst, such as a peroxide.

Para-(4-methoxyanilin) Phenoxide

Rubber—Starting point (U.S. 2128-100) in making antioxidants for rubber by alkylating in the presence of an inert solvent and sufficient sodium hydroxide to maintain alkalinity.

Parathiocyanoanisole

Chemical—New compound offered (Brit. 544849) as of interest to chemists.

Phenylparatolyltriazene

Fuel—Ingition accelerator for diesel engine fuels (number 32 in the Nygaard, Crandall, and Berger list, which is arranged in the order of decreasing effectiveness at a concentration of 0.5 weight percent in straight-run diesel fuels).

Tetraethylenepentamine

(Additional uses—supplementary to those given in the book, Uses and Applications of Chemicals and Related Materials)

Petroleum—Starting point (U.S. 2250-176, 2250404, 2250405, 2250406, 2250407, 2250408, and 2251393) in making demulsifying agents (breakers) for petroleum emulsions of the water-in-oil type, by reacting with the following: blown or ordinary castor oil, rapeseed, soybean, or tung oil, erucic, oleic, or stearic acid, unsaturated fatty acids having 8 to 32 carbon atoms.

Association Meetings

American Management Association Conference on Packaging, Packing and Shipping, Convention Hall, Philadelphia, April 8-11.

American Society for Testing Materials, Benjamin Franklin hotel, Philadelphia, February 24.

American Water Works Association 1947 Conference, Auditorium, San Francisco, July 21-25.

American Zinc Institute, Statler hotel, St. Louis, April 28-29.

Chemical Institute of Canada, Banff Springs hotel, Banff, Alberta, June 8-10.

Chemical Market Research Association, Du Pont hotel, Wilmington, Del., April 17.

Drug, Chemical and Allied Trade Section of New York Board of Trade, Waldorf-Astoria hotel, New York, March 13.

Federal Wholesale Druggists Association, Pennsylvania hotel, New York, March 3-5.

Inter-Society Color Council, Pennsylvania hotel, New York, February 24-25.

Metal Powder Association, Waldorf-Astoria hotel, New York, May 27.

National Association of Corrosion Engineers, Palmer house, Chicago, April 7-10.

National Association of Insecticide and Disinfectant Manufacturers, Edgewater Beach hotel, Chicago, June 9-11.

National Association of Purchasing Agents, Waldorf-Astoria hotel, New York, June 2-4.

National Farm Chemurgic Council, Skirvin hotel, Oklahoma City, March 26-29.

National Fertilizer Association, Essex and Sussex hotel, Spring Lake, N. J., June 20-21.

National Wholesale Druggists Association, Palmer house, Chicago, April 21-23.

Natural Gasoline Association of America, Baker hotel, Dallas, Tex., April 23-25.

Southern Paint and Varnish Production Club, Peabody hotel, Memphis, March 20.

Technical Association of Pulp and Paper Industry, Commodore hotel, New York, February 24-27.

Tung Oil Quota Rules Amended

OPD Washington Bureau

The International Emergency Food Council has announced that allocations recommending specific destinations for exports of tung oil will not be included in the fats and oils recommended allocation schedules for 1947. Although no specific allocations will be recommended for tung oil, tonnages imported by claimant nations will be considered in later revisions of the total allocations of fats and oils recommended for each claimant nation, the council stated.

Southern Paint Group Sets Meeting Program

A paint industries show, with fifteen companies exhibiting, will feature the eleventh annual convention of the Southern Paint and Varnish Production Club, to be held at the Peabody hotel, Memphis, Tenn., March 19-22.

The technical sessions of the meeting will get underway at 11 a.m., March 20, with the following papers being presented: "Recent Developments in Nitrocellulose Lacquers," J. R. Yeager, Hercules Powder Company; "Mildew Problems of Interest to the Paint, Varnish and Lacquer Manufacturers," P. G. Benignus, Monsanto Chemical Company, and "Infra-Red in the Finishing Field," Ira J. Barber, Fostoria Pressed Steel Corporation.

Papers to be presented the afternoon of March 20 include "Certain Aspects of Tinting with Chemical Colors," Henry L. Beakes, Kentucky Color & Chemical Company; "The Soybean—Myth or Miracle," W. G. Andrews, Archer - Daniels - Midland

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N.Y. Oil Trades Meeting March 18

The annual meeting and the election of officers of the Oil Trades Association of New York will be held at the Waldorf-Astoria hotel March 18. Nominees are J. H. Blakney, of Colgate-Palmolive-Peet Company, president; H. E. Brandli, Cities Service Oil Company, vice-president; Joseph C. Smith, Smith-Weihman Company, secretary, and Gordon L. Benjamin, Gulf Oil Corporation, treasurer.

Reservations for the dinner must be made before March 14 and are being handled by Mr. Benjamin, whose address is 17 Battery Place.

Production Problems Discussed At A.P.M.A. Eastern Meeting

Scientific pharmaceutical developments, production techniques and sales postwar programs featured the three-day meeting of the eastern section of the American Pharmaceutical Manufacturers Association at the Commodore hotel, New York, last week.

Technical sessions were conducted by the eastern section's scientific committee, production committee and sales and advertising committee.

Dr. John C. Bird, of the Lederle Laboratories division of the American Cyanamid Company, was chairman of the scientific meeting, and W. O. Brewer of the Calco Chemical Division of Cyanamid, acted as chairman of the production section. The sales and advertising meeting was directed by Bernard Jeffs, of Reed & Carnrick.

Stability tests on penicillin containing tablets, troches, ointments and capsules as determined by the Food and Drug Administration's cup plate method and the chemical idometric method, were reported by Dr. Bird in a paper presented to the scientific meeting. Results of the tests, he said, which were conducted by a group of four coordinating laboratories, show there is considerable deterioration by loss of potency with increases in temperature above room temperature.

He declared that increased temperature losses on troches and tablets over a period of four months ranged from six percent at 42 degrees Centigrade to 46 percent at 56 degrees Centigrade. Room temperature storage revealed an average loss on tablets of 12 percent in nine months, Dr. Bird said, and on troches of 38 percent in 10 to 15 months.

Dr. Bird stated that greatest sta-

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Chemical Engineers View Ky. Industries

Chemical industries in the area of Louisville, Ky., held the attention of the American Institute of Chemical Engineers last week as members gathered in that city for their year's first regional meeting. Technical papers describing local industries, new chemical developments in the nation and inspection trips through Louisville plants rounded out a four-day meeting which began February 16.

An all-day symposium of technical papers placed emphasis on Louisville's distilling, paint and varnish, tobacco by-products, oil and soap and chemical industries. Other sessions were devoted to surveys of German chemical engineering and the production of aluminum-silicon alloys from clay.

Production of Greases

A new, better and continuous way of making greases was revealed by Dr. H. G. Houlton, of the Girdler Corporation, Louisville. The new method eliminates the batch method of the past which involved the use of rule-of-thumb calculations, and varied quality from batch to batch.

Dr. Houlton said that "the continuous process for manufacturing lubricating greases has proved highly successful. It has been in commercial operation for about four years, making lime grease at sixty pounds per minute or 86,000 pounds per stream day."

Among the advantages of the continuous process, which uses a closed system, as compared with the "batch" method, are the following, according to Dr. Houlton: problems of air entrainment and foaming are eliminated; since flashing is not resorted to, accurate moisture control is assured; incomplete saponification is

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Oil Compact Group To Meet April 24-26

The spring quarterly meeting of the Interstate Oil Compact Commission will be held in Birmingham, Ala., April 24-26. Committee studies authorized at the December meeting are expected to be completed in time for the Birmingham sessions.

Matthes Foundation Offers Fellowships

Three $1,000 fellowship awards are being offered to Latin-American students who can qualify for graduate work at the Carnegie Institute of Technology for the academic year 1947-48, it has been announced by Dr. Webster N. Jones, director of the school's college of engineering and science.

Donor of the awards is the Matthes Foundation, formed by Albert J. Matthes, president of the Machinery Liquidating Company, New York. The fellowships will be offered only in civil, electrical, chemical, mechanical or metallurgical engineering, or in physics, chemistry or mathematics.

Recipients of the awards will be chosen by competitive examinations under the auspices of the Carnegie Foundation on or before March 31.

Commercial Laboratories Council Expands

The American Council of Commercial Laboratories has organized a western division to include California, Oregon, Washington, Montana, Idaho, Wyoming, Nevada, Utah, Colorado, New Mexico, Arizona, and the territories of Alaska and the Hawaiian Islands. Officers of the division are president, Roger W. Truesdail; vice-president, Herbert Imrie, and secretary-treasurer, E. O. Slater.

Galvanizers Group To Meet April 28-29

The Galvanizers Committee of the American Zinc Institute will hold its seventeenth meeting at the Statler hotel, St. Louis, April 28-29. F. G. White, technical director of the Granite City Steel Company, heads the program committee.

Labor Relations

Mitchell M. Shipman
Labor-Management Consultant

Mt. Clemens Portal-Pay Decision: Its Meaning and Effect
Part I

All of us have been anxiously awaiting Judge Picard's decision in the Mt. Clemens portal-to-portal case. It was finally handed down Saturday, February 8, denying the employees' claim and dismissing the case.

To many of us, this dismissal of the case might appear to sound the deathknell of all portal-to-portal claims. After all, here is the father of portal claims dismissed by the court. One might readily be prone to feel that, if the parent claim is denied, there cannot be much to this entire portal-to-portal problem. As a matter of fact, this column has observed some such reaction on the part of many employers. And with it, he is most disturbed, for it evidences a complete misunderstanding of the true meaning and effect of the Mt. Clemens decision.

What then does the Mt. Clemens case hold? What is its effect? Is walking and "preliminary activities" time still to be considered time worked and compensatory under the wage and hour law?

The answer to these and many other questions involved in the portal-to-portal issue can be understood only if the Mt. Clemens decision is carefully analyzed. Misconceptions as to its true meaning and effect are most likely, and from present indications are already prevalent. These should be corrected.

If the case is to be understood at all, we must start with the premise that, as far as the basic "law" of portal-to-portal claims is concerned, it is as laid down by the Supreme Court of the United States in its Mt. Clemens decision of last year. Judge Picard's decision in his case has not changed, nor can it change, this basic "law."

This law of portal-to-portal claims involves two fundamental propositions. The first is that walking and "preliminary activities" time does constitute time worked and must be compensated for, custom or contract to the contrary, notwithstanding. Quoting from the supreme court's decision:—

> Time spent in walking to work on the employer's premises, after the timeclocks were punched, involved "physical or mental exertion (whether burdensome or not) controlled or required by the employer and pursued necessarily and primarily for the benefit of the employer and his business." . . . Work of that character must be included in the statutory workweek and compensated accordingly, regardless of contrary custom or contract.

The second proposition of the portal-to-portal law is that, once the walking and "preliminary activities" time is ascertained, then the rule of ***"de minimus"*** must be applied in computing the damages and, with it, the workweek construed "in light of the realities of the industrial world." In short, under

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Book Reviews

The New Fibers, by Joseph V. Sherman & Signe L. Sherman, 537 pages, 8½x5½, D. Van Nostrand Company, New York, N. Y., $5.00.

This book presents the scientific and commercial facts on both the man-made fibers and the chemically improved natural fibers, and describes fully the research efforts now being carried on to develop both of these groups. The authors present tables of basic data on production, consumption and prices of cotton, wool, silk and rayon. The appendix includes a list of approximately 1,600 patents issued in the United States alone in the past ten years.

Now...a 2,4-D formulation for killing weeds in small grains!

Baker's 2,4-D Formulation #1

HELPS YOU MEET THIS NEW MARKET

Crop specialists at the recent North Central Weed Control Conference went on record, approving 2,4-D formulations for eliminating weeds in small grains.

On the basis of accumulated data, they recommended 2,4-D formulations for treating fields of wheat, oats, barley and rye when infested with annual weeds—such as the various species of wild mustard.

The best time to treat small grains is when the crop is about 3 inches high . . . using a concentration of 1.3 lbs. per acre of 2,4-D Acid in the form of the Sodium Salt. (This would require only 1.55 lbs. per acre of Baker's Formulation #1). Of course these recommendations are subject to change, since new data is constantly being produced.

For you who market weed killers, the recognition of this new use for 2,4-D formulations greatly increases the scope of your market. To help you meet this expanding market—the J. T. Baker Chemical Co. can supply you a special formulation of the Sodium Salt of 2,4-D—ask for Formulation #1.

Prices and further information will be gladly sent upon request. Address *Organic Chemical Division*, J. T. Baker Chemical Co., Executive Offices, Phillipsburg, N. J.

Baker's Chemicals

C. P. ANALYZED • FINE • INDUSTRIAL

Current Market Quotations Chemicals and Related Materials

February 20, 1947

Unless otherwise indicated, quotations are first-hands on large lots, f.o.b. New York. Price changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, Arabic).

Acetaldehyde, 99%, dms., 55 gals., works .lb. .11 - .12
5 and 10 gals., works .lb. .14 - .15
tanks .lb. .08 - .09

Acetaldol (see Aldol).

Acetamide, CP, fib. dms. .lb. .65 - .75
tech., fib. dms. .lb. .33 - .45

Acetanilide, tech., cryst., powd., bbls. c.l. .lb. .19 - —
l.c.l. .lb. .23 - —
kgs. .lb. .25 - —

USP, cryst., powd., bbls., 2,000-lb. lots .lb. .40 - .41
smaller lots .lb. .41 - .42

Acetic anhydride, dms., c.l., frt. alld. .lb. .11½- —
l.c.l., frt. alld. .lb. .13 - —

Acetoacetanilide, bbls., dms. .lb. .60 - —

Acetone, CP, dms., c.l., dlvd. .lb. .08½- .12
l.c.l., dlvd. .lb. .09 - .12½
tanks, dlvd. .lb. .07 - .10

Methyl (see M).

Acetonitrile, dms., c.l., works. .lb. .45 - —
l.c.l., works .lb. .50 - —
5-gal. lots, works .lb. .55 - —
less than 5-gal. lots, works. .lb. .60 - —

Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots .lb. 1.00 - —
dms. .lb. 1.08 - 1.10

Acetophenone, cns., dms. .lb. 1.50 - 1.75

Acetyl chloride, cbys., works. .lb. .60 - —

Acid, abietic, doms., c.l., wks. .lb. .07½- —
Acetic, com'l gr redist., 28%, bbls. .100 lbs. 3.75 - 4.00
50%, bbls. .100 lbs. 7.56 - 7.81
70%, bbls. .100 lbs. 9.45 - 9.70
80%, bbls. .100 lbs. 10.80 -11.05
99.5%, bbls. .100 lbs. — - —
glacial, synthetic, C.P., dms., works .100 lbs. 13.20 -13.75
tanks .100 lbs. 7.62 - 7.92
tech., works .100 lbs. 9.90 -10.20
tanks, works .100 lbs. 7.62 - 8.12
USP, dms., works .100 lbs. 11.60 -11.65
USP, 36%, cbys .lb. .1000- .1605

Acetic acid price ranges above are for c.l. and l.c.l. quantities. Carboys and casks are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride above)

Acetylsalicylic, special, USP, bbls., makers, primary distrib., point of shipm't, 100-lb. lots .lb. .50 - —
smaller lots .lb. .51 - .64

standard USP,, fine cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis. lb. .45 - .59

Freight equal'd, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Aminoacetic, USP, cryst., powd., bbls., frt. adjusted .lb. 1.50 - 1.67

Anthranilic, resub., bbls. .lb. 2.00 - 2.20
tech., bbls. .lb. .90 - —

Arsenous, tech. (see Arsenic, white).

USP, powd., dms., kgs. .lb. .20 - .23

Ascorbic, USP, dms., 500-kilo lots .kilo. 24.50 - —
25-50 kilo lots .kilo. 25.00 - —
10-kilo lots .kilo. 25.35 - —
5-kilo lots .kilo. 25.70 - —
bots., kilo lots .kilo. 26.41 - —
500 grams .kilo. 27.47 - —

Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - 1.75
l.c.l., E. works .100 lbs. 2.05 - 2.75

Benzoic, tech., bbls., 4,000 lbs. or more .lb. .43 - —
1,000 to 3,900 lbs .lb. .44 - —
900 lbs. or less .lb. .47 - —

USP, bbls., 4,000 lbs. up .lb. .54 - —
1,000 to 3,900 lbs .lb. .55 - —
900 lbs. or less .lb. .58 - .59
dms., 4,000 lbs. up .lb. .55 - .56
1,000 to 3,900 lbs .lb. .56 - .57
900 lbs. or less .lb. .58 - .59

Betacynaphthoic, bbls., works. lb. .95 - —

Boric, tech., 99.5%, gran., bulk. ton. 95.50 -100.00
paper bgs., c.l., frt. alld. ton. 99.00 -105.00
ton lots, ex whse. N. Y. or Chi. .ton. 117.50 - —
less ton lots, same basis. ton. 122.50 - —
bbls., c.l., frt. alld. .ton. 119.00 -123.50
ton lots, ex whse. N. Y. or Chi. .ton. 137.50 - —
less ton lots, same basis. ton. 142.50 - —
cryst., powd., paper bgs., c.l., frt. alld. .ton. 104.00 -108.50
ton lots, ex whse. N. Y. or Chi. .ton. 122.50 - —
less ton lots, same basis. .ton. 127.50 - —
bbls., c.l., frt. alld. .ton. 124.00 - —
ton lots, ex whse. N. Y. or Chi. .ton. 142.50 - —
less car lots, same basis. .ton. 147.50 - —

USP $25 per ton higher.

Butyric, 99%, dms., c.l., works. .lb. .29 - —
l.c.l., same basis .lb. .30 - —

Broenner's, bbls. .lb. 1.22 - —

Cacodylic, bots. .lb. 13.00 -16.50

Camphoric, synthetic, cns. .lb. 7.00 - 7.25

Caprylic, 99%, dms. .lb. **No stocks**
Capric, tech., ret. dms. .lb. **No stocks**
Castor oil, split, ret. dms. .lb. **No stocks**

Acid, chlorosulphonic, dms., c.l., works .lb. .03 - —
l.c.l., works .lb. .03½- .04½
tanks, works .lb. .02½- —

Chromic, 99½-99¾%, dms., c.l., works .lb. .20 - —
l.c.l. .lb. .20½- .21

Cinnamic, refd., bots .lb. 3.00 - 3.50

Citric, anhyd., gran., dms., c.l. .lb. .22½- —
l.c.l., 10,000 lbs. 1 ship't. lb. .23 - —
smaller lots, bbls. .lb. .23½- —
dms. .lb. .25½- .26½
kgs. .lb. .24 - —

USP, cryst., gran., bbls., c.l., works .lb. .20 - —
l.c.l., 10,000 lbs., 1 ship't. lb. .20½- —
smaller lots, bbls. .lb. .21 - —
dms. .lb. .23 - .24
kgs. .lb. .21½- —
powdered citric acid, ½c. higher.

Cleve's, bbls. .lb. .65 - 1.00

Coconut oil, dist., dms. .lb. .30 - .30½

Corn oil, s.d., dms., c.l., wks. lb. **No prices**

Cottonseed oil, s.d., dms., c.l. lb. **No prices**
tanks, dlvd. .lb. **No prices**

Cresylic dom. coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald. .gal. 1.01 - —
l.c.l., same basis .gal. 1.04 - —
tanks .gal. .90 - .95

Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref. .gal. .490 - —
Sewaren, N. J., ref. gal. .615 - —
1-19, Cal., ref. .gal. .510 - —
Sewaren, N. J., ref. gal. .636 - —
tanks, dlvd. .gal. .586 - —
light grade (200°-346°), tanks, Cal., ref. .gal. .690 - —
medium grade (220°-346°), dms., 20 Cal., ref. .gal. .50 - —
Sewaren, N J., ref. gal. .636 - —
1-19, Cal. ref. .gal. .570 - —
Sewaren, N. J., ref. gal. .690 - —
tanks., dlvd. .gal. .646 - —

Crotonic, bbls., Canadian, wks. lb. .25 - —

Dichlorophenoxyacetic, fib. dms., c.l., works .lb. .80 - —
l.c.l., works .lb. .85 - .95

Diethylbarbituric (see Barbital).

F (see Acid, monosulphonic).

Formic, 85%, cbys., c.l., wks. .lb. .12 - —
l.c.l., works .lb. .12½- .14½
90%, cbys., c.l., works .lb. .12½- —
l.c.l., works .lb. .13 - .14½

Fumaric, tech., bbls., dms. .lb. .27 - .31

Gallic, NF V, 1,000-lb. lots, bbls. .lb. 1.40 - —
smaller lots .lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots. lb. 1.23 - —
smaller lots .lb. 1.26 - 1.28

Gamma, bbls. .lb. .97 - —

Gluconic, tech., 50%, bots. .lb. .23 - .31
dms. .lb. .14 - —
kgs. .lb. .16 - —

Glycolic (see Acid, hydroxyacetic).

H, bbls., works .lb. .50 - —

Hydriodic, 45-47%, cbys. .lb. 2.52 - 2.54
57%, cbys. .lb. 2.83 - 2.86

Hydrobromic, medicinal, 48%, cbys., dlvd. E. .lb. .48 - —
tech., 48%, cbys., same basis. lb. .48 - —
34%, cbys., same basis .lb. .35 - .37

Hydrochloric (see Acid, Muriatic).

Hydrocyanic, cyls., works .lb. .80 - 1.00
NF, dilute, 2%, 5-lb. bots. .lb. .80 - .40

Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19¼
dmjn. .lb. .21 - .23
tanks, works .lb. .16 - —
30%, rubber dms., works .lb. .08 - .09
45%, rubber dms., works .lb. .12 - —
52%, rubber dms., works .lb. .12½- —
60%, rubber dms., works .lb. .13½- —

Hydrofluosilicic, 30-35%, bbls. .lb. .06 - .09

Hydroxyacetic, 70% tech., bbls., non-return, Phila .lb. .064 - —
tanks, Belle, W. Va., acid basis .lb. .065 - —

Hypophosphorous, USP, djns. .lb. .75 - .77

Lactic, edible, 50%, bbls., 20 or more .lb. .13363- —
smaller lots .lb. .13513- .1451
80%, bbls., 5 or less .lb. .24½- .24¾
plastic grade, 50%, bbls., 20 or more .lb. .14½- —
10 or less .lb. .14¾- .15¼
80%, bbls., 5 or less .lb. .26 - .26½
tech., dark, 22%, bbls., c.l., works .100 lbs. 4.00 - 4.55
l.c.l., works .100 lbs. 4.60 - 4.75
cbys., works .100 lbs. 5.10 - —
44%, bbls., c.l., works .100 lbs. 7.75 - 8.25
l.c.l., bbls., works .100 lbs. 8.25 - 8.50
cbys., works .100 lbs. 8.90 - 9.15
light, 22%, bbls., c.l., works .100 lbs. 3.90 - —
l.c.l., works .100 lbs. 4.15 - —
cbys., works .100 lbs. 5.15 - —
44%, bbls., c.l., works .100 lbs. 7.20 - —
l.c.l., works .100 lbs. 7.55 - —
cbys., works .100 lbs. 8.55 - —

USP XII, 80%, cbys .lb. .54 - .57
USP VIII, 70%, cbys .lb. .52 - .55

Laurent's, bbls. .lb. .63 - —

Lauric, dist., 95%, dms .lb. **No prices**
60%, dms .lb. .82 - .82½

Linseed oil, light, dms .lb. **No prices**

Maleic, powd., dms .lb. .30 - —
Anhydride (see M).

Acid, malic, powd., kgs .lb. .47 - —

Mandelic, USP, dms., 1,000-lb. lots .lb. 2.05 - —
smaller lots .lb. 2.10 - 2.30

Mixed, tanks, nitric unit .lb. .05 - .06
sulphuric unit .lb. .0085- .009

Molybdic, kgs., works .lb. .95 - 1.10

Monochloracetic, tech., flakes, 96-97%, dms .lb. .17 - .18
purified, flake, 99%, dms .lb. .21 - .22½

Monosulphonic, bbls. .lb. 1.50 - —

Muriatic, 18°, cbys., c.l., E. works .100 lbs. 1.50 - 1.70
l.c.l., E. works .100 lbs. 1.90 - 2.90
tanks, works .ton. 18.00 -18.20
20°, cbys., c.l., E. works 100 lbs. 1.85 - 2.00
tanks, E. works .ton. 20.00 -21.00
22°, cbys., c.l., E. works 100 lbs. 2.35 - 2.50
tanks, E. works .ton. 22.00 -26.00
CP, USP, consumers, cbys. extra .lb. .08 - —
6-lb. bots., extra .lb. .10 - —
dealers, cbys., extra .lb. .06½- —
6-lb. bots., extra .lb. .08½- —

Myristic, dist., dms .lb. **No stocks**

Naphthenic, 220-230 acidity, dms., extra, works .lb. .12 - —
tanks, works .lb. .09 - —
230-240 acidity, dms., extra, works .lb. .17 - —
tanks, works .lb. .14 - —

Neville and Winthers, dms .lb. .73 - —

Nicotinic, USP, dms., works kilo. 7.00 - 7.30

Nicotinic amide (see Nicotinamide).

Nitric, 36°, cbys., c.l., E. works. 100 lbs. 5.00 - —
l.c.l., 25, E. works .100 lbs. 5.30 - 6.50
38°, cbys., c.l., E. works 100 lbs. 5.50 - —
l.c.l., works .100 lbs. 6.00 - 6.25
40°, cbys., c.l., E. works 100 lbs. 6.00 - 6.50
l.c.l., works .100 lbs. 6.50 - 7.10
42°, cbys., c.l., E. works 100 lbs. 6.50 - 7.00
l.c.l., works .100 lbs. 7.00 - 7.25
CP, USP, consumers, cbys. extra .lb. .13 - —
7-lb. bots., cs., extra .lb. .15 - —
dealers, cbys. extra .lb. .11½- —
7-lb. bots., cs., extra .lb. .13½- —

Oleic (see Oil, Red).

Oleum (see Acid, sulphuric, fuming).

Oxalic, bbls., c.l., works .lb. .13 - —
10,000 lbs .lb. .13¼- —
smaller lots .lb. .14 - —

Palm oil, white, dist., dms .lb. .30½- .31

Para-aminobenzoic, cns .lb. 1.55 - —

Paranitrobenzoic, cns .lb. .80 - —

Paratoluidinmetasulphonic, bbls., works .lb. .80 - —

Peanut oil, s.d., tanks, works. lb. **No prices**

Phenylacetic, bots. .lb. 1.60 - 2.00

Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald .100 lbs. — - —
cbys., c.l., works, frt. equald .100 lbs. 5.00 - —
l.c.l., works, frt. alld.. 100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald .100 lbs. 5.25 - —
cbys., c.l., works, frt. equald .100 lbs. 5.60 - —
l.c.l., frt. alld. .100 lbs. 7.75 - 8.75
tanks, works, frt. equald., 100 lbs. 4.65 - —
USP, 100-lb. cbys., c.l. .lb. .10½- —
10 cbys. to c.l. .lb. .11¼- —
2 to 9 cbys. .lb. .12 - —
single cbys. .lb. .13 - —
70-lb. cbys. .lb. .10¼- —
25 cbys. to c.l. .lb. .11¼- —
5 to 24 cbys. .lb. .12 - —
1 to 4 cbys. .lb. .13 - —
dilut., 10%, cbys., djns. .lb. .07 - .07½

Picramic, bgs. .lb. .65 - .70

Picric, bbls. .lb. .30 - .31

Propionic, synth., pure, dms., works .lb. .19½- —
tanks, works .lb. .18½- —
natural, dms., works .lb. .15 - —
tanks, works .lb. .14 - —

Pyrogallic, tech., bbls .lb. **No prices**

N.F., cryst., dms .lb. 2.50 - 2.55
resub., dms .lb. 3.00 - 3.02

Pyroligneous, bbls. incl., ex whse., l.c.l. .gal. .41 - —

Ricinoleic, com'l split (see Acid, castor oil, split).

Salicylic, tech., bbls., c.l. .lb. .36 - —
100 lbs. to c.l. .lb. .33 - —
smaller lots .lb. .34 - .42
USP, bbls., c.l. .lb. .28 - —
100 lbs. to c.l. .lb. .35 - —
smaller lots .lb. .36 - .44

Sebacic, tech., dms., c.l., works, lb. **No stocks**

Soybean oil, s.d., dms., works. lb. .32½- .33¼
tanks, works **No prices**

Stearic, double pressed, bgs. .lb. .33½- .34½
single pressed, bgs. .lb. .32 - .34
triple pressed, bgs. .lb. .36½- .37½

Succinic, bbls. .lb. .75 - —

Sulphanilic, CP, bots., works. .lb. 1.00 - 1.03
tech., dms., works .lb. .17 - —

Sulphuric, 60°, cbys., c.l., E. works .100 lbs. 1.35 - 1.40
l.c.l. .100 lbs. 1.70 - 2.60
tanks, E. works .ton. 13.00 -13.50
66°, cbys., c.l., E. works 100 lbs. 1.55 - 1.70
tanks, E. works .ton. 16.50 -17.50
98°, tanks, works .ton. 17.50 -18.50
CP, USP, consumers cbys. extra .lb. .06 - —
9-lb. bots., cs., extra .lb. .10 - —
dealers, cbys., extra .lb. .06½- —
9-lb. bots., cs., extra .lb. .08½- —
fuming, 20%, tanks, E. works .ton. 19.50 -20.50

Tannic, tech., bbls., dms .lb. .93 - .94

USP, fluffy, bbls., 1,000 lbs. lb. 1.45 - —
smaller lots .lb. 1.47 - 1.50
powder, bbls., 1,000 lbs .lb. 1.25 - —
smaller lots .lb. 1.17 - —

Tartaric, USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't .lb. .84½- —
smaller lots, bbls .lb. .85 - —
dms .lb. .87 - .88
kgs .lb. .85½- —

Thioglycolic, bbls., cbys., basis 100% .lb. 2.00 - 2.30

Tobias, bbls .lb. .60 - —

Trichloracetic, bots .lb. 2.40 - 2.50

Tungstic, CP, 100-lb. pkgs .lb. 2.94 - 3.10
pure, 100-lb. kgs .lb. 2.80 - —

Aconite leaves, bls .lb. .75 - .80
Root, bls .lb. 1.30 - 1.35
Aconitine, amorph., bots .oz. 32.00 -32.00
15-gr. vials .vial. 1.00 - —
cryst., bots .oz. 42.00 -42.00
15-gr. vials .vial. 1.00 - —

Acrylonitrile, dms., c.l., works. lb. .29½- —
l.c.l., works .lb. .42½- —
tanks, works .lb. .28½- —

Adeps lanae USP, anhyd., cosmetic, dms., works .lb. .26 - .30
pharmaceutical, dms., works. lb. .26 - .28

Adonis vernalis herb, bls .lb. .65 - .70

Agar .lb. 4.00 - 4.35

Agaric, white, bls .lb. 2.75 - 3.00

Agrimony herb, bls .lb. .40 - .45

Albumen, blood, dark (see Blood, soluble).
light, dms., l.c.l. .lb. .70 - —
egg, edible, cryst., gran., bbls. lb. 1.70 - 1.75
powd., bbls .lb. 1.75 - 1.85
tech., cryst., bbls .lb. 1.10 - 1.30

Alcohol, allyl, dms., c.l., dlvd. .lb. .31 - —
l.c.l., dlvd .lb. .31½- —
tankcars, dlvd .lb. .30 - —

Amyl ex pentane, dms., c.l., frt. alld., E. of Miss. R. lb. .161 - —
l.c.l., frt. alld .lb. .171 - —
tanks, frt. alld .lb. .161 - —
(see also Fusel oil, ref.).

Benzyl, cns .lb. .83 - —
dms .lb. .68 - .73

Butyl, normal, ferment. Ill., Ind. prod., dms., c.l., frt. alld. .lb. .26½- —
l.c.l., frt. alld. E .lb. .27 - —
tanks, frt. alld. E .lb. .25 - —
tankwagon, frt. alld .lb. .25½- —
other production, dms., c.l., frt. alld. E. .lb. .29 - —
l.c.l., frt. alld. E .lb. .30½- —
tanks, frt. alld. E .lb. .31 - —
synthetic, dms., c.l., frt. alld. E. .lb. .15½- —
l.c.l., frt. alld. E .lb. .16 - —
tanks, frt. alld. E .lb. .14½- —
Normal butyl alcohol prices in West, ½c. per lb. higher.

secondary, dms., c.l., dlvd. .lb. .1050- .1100
l.c.l., dlvd .lb. .1100- .1210
tanks, dlvd .lb. .09½- .1100

tertiary, denat., dms., c.l. .lb. .12½- —
l.c.l., dms .lb. .13 - —
tanks .lb. .11 - —

Capryl, dms., c.l., works .lb. .17½- —
l.c.l., works .lb. .18½- —
tanks, works .lb. .16 - —

Cetyl, dom., CP., fiber ctns., 1,000 lbs. .lb. 2.35 - —
smaller lots .lb. 2.30 - 2.55

Cinnamic, bots .lb. 5.00 - 5.25

Denatured, CD14, dms., c.l., works, E. .gal. .29½- —
l.c.l., works, E .gal. .32½- .36½
tanks, E., dlvd .gal. .32½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., E. works. .gal. .30½- —
l.c.l., works, E .gal. .32½- .36½
tanks, E. works .gal. .32½- —
Anhydrous 1c. per gal. higher

SD2B, dms., c.l., wks., E. .gal. .29 - —
l.c.l., works, E .gal. .32 - .36
tanks E. works .gal. .32 - —

SD23G, dms., c.l., works. .gal. .32½- —
l.c.l., works .gal. .36½- 1.60
tanks, works .gal. .30½- —

SD23H, dms., c.l. .gal. .30½- —
l.c.l., works, E .gal. .325 - .365
tanks, E works .gal. .333 - .369

SD29, denatured, with acetaldehyde, dms., c.l., E. works. .gal. .30 - —
l.c.l., works, E .gal. .34 - .38
tanks, E. works .gal. .33 - —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD3H plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works, E. .gal. .30 - —
l.c.l., works, E .gal. .345 - .1000
tanks, E. works .gal. .345 - .369

Tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone-free, dms., c.l., dlvd. .lb. .12½- .13
l.c.l., dlvd .lb. .13 - .13½
tanks, dlvd .lb. .11½- —
tech., dms., c.l., dlvd .lb. .13 - —
l.c.l., dlvd .lb. .12½- —
tanks, dlvd .lb. .10½- .11

Ethyl, 190 pf., dms., c.l., works. gal. 18.01 - —
l.c.l., works .gal. 18.06 - 18.10
tanks .gal. 17.94 - —
absolute, dms., c.l., works .gal. 18.08 - —
l.c.l., works .gal. 18.12 - 18.17
tanks .gal. 18.01 - —

Ethylhexyl, dms., c.l., works. .lb. .28 - —
l.c.l., works .lb. .30 - —
tanks, works .lb. .24 - —

Furfuryl, tech., cns., works. .lb. .35 - —
dms., c.l., works .lb. .23½- —
l.c.l., works .lb. .25 - —
tanks, works .lb. .19 - —

Isoamyl (see Carbinol, isobutyl).

Isobutyl, refd., dms., works. .lb. .13 - —
tanks, works .lb. .12 - —

Isopropyl, refd., 91%, dms., incl., c.l., dlvd. .gal. .41 - .44½
l.c.l., dlvd .gal. .44 - .47½
tanks, dlvd .gal. .37 - .38
99%, dms., incl., c.l., dlvd. .gal. .44 - .50½
l.c.l., dlvd .gal. .47 - .47½
tanks, dlvd .gal. .41 - —

Methyl (see Methanol).

Methylamyl (see Carbinol methylisobutyl).

Octyl, perfumer's grade, bots. .lb. 4.00 - 4.25
Phenylethyl, dms .lb. 2.80 - 2.75
Polyvinyl, type A, fiber-pack, Niagara Falls. .lb. .65 - .70
type B, fiber-pack, same basis. lb. .60 - .65
Propyl, normal, dms., works. .gal. .82 - —
tanks, works .gal. .75 - —

Tetrahydrofurfuryl, cns., Cedar Rapids, Ia. .lb. .55 - —
dms., c.l., Waverly, N. Y. .lb. .40 - —
l.c.l., same basis .lb. .52 - —

Aldol, dms., works .lb. .15 - —
denaturing grade, dms .gal. 1.30 - —

Aletris root, bgs .lb. 2.00 - 2.25

Algarobilla, c.l., ex dock long ton. **No prices.**

Algarobilla price based on ocean frt. at $12 and $1 insurance per long ton.

Algin, bbls., fib. dms .lb. .76 - 1.00

Alizarin (see Red, alizarin).

Alkanet, root, bgs .lb. .85 - .90

Allspice, Mexican, futures, bgs., lb. .17 - .17½

Allyl bromide, cbys., 5,000 lbs., works .lb. .90 - —
smaller lots, works .lb. 1.05 - 1.10

Chloride, dms., c.l., dlvd .lb. .13½- —
l.c.l., dlvd .lb. .14 - —
tanks, dlvd .lb. .12½- —

Aloe, Cape, cs. ..... lb. .42 - .46
Curacao, kgs. ..... lb. .42 - .43
Socotrine, kgs. ..... lb. .47 - .48
Alsin, bbls., dms., kgs. ..... lb. 4.50 - 4.80
Alphanaphthol, bbls. ..... lb. .58 - —
Alphanaphthylamine, bbls. ..... lb. .35 - —
Alphanaphthylthiourea, fib. dms., works, frt. alld. ..lb. 4.00 - 4.40
Alphapicoline, ret. dms., works, frt. equald. ..lb. .24 - .27½
Alphapinene, wks., South, tanks, gal. 1.15 - —
Alphaterpineol, dms., c.l., works. lb. .1240- —
l.c.l., works ..... lb. .1320- —
tanks, works ..... lb. .1200- —
Alphatocopherol, amp. ..... gram. .90 - 1.00
Althea root, NF, peeled, bls. ..lb. .40 - .45
Alum, ammonia, burnt, USP, bbls., kgs. .lb. .16 - .18
gran., bbls., works. ...100 lbs. 4.00 - —
lump, bbls., works. ...100 lbs. 4.25 - —
powd., bbls., works. ...100 lbs. 4.40 - —
Potash, gran., bbls., works. ... 100 lbs. 4.25 - —
lump, bbls., works. ...100 lbs. 4.50 - —
powd., bbls., works. ...100 lbs. 4.65 - —
Potash-chrome, bbls. ..... lb. .12½- .15
Soda, bbls., c.l., works. .100 lbs. 3.25 - —
l.c.l., dlvd. ..... 100 lbs. 4.25 - 5.00
Alumina, classified, grade, grd., kgs., works. .lb. .35 - .37
top grade, ground, kgs., works. lb. .60 - .67
unclassified, ground, kgs., works. .lb. .10½- .40
Acetate, basic solution, 24%, bbls., l.c.l., works. .lb. .11 - —
20%, bbls., l.c.l., works. lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works. .lb. .10 - .11
l.c.l., works. ..... lb. .10½- —
cryst., com'l, dms., c.l., works. lb. .06 - —
l.c.l., works. ..... lb. .06½- .06¾
solution, 32 deg., cryst., c.l., works. .lb. .02¾- —
l.c.l., works. ..... lb. .03¼- —
Fluoride, tech., bbls. ..... lb. .25 - —
Formate, solution, 12-20° Be, bbls., c.l., works, f.o.b. equaled Phila. and Chi. lb. .09½- —
l.c.l., works, same basis. lb. .10 - —
Hydrate, heavy, bgs., c.l., works. .lb. .024 - .031
l.c.l., works. ..... lb. .035 - .040
light, bgs., dlvd. ..... lb. .14½- —
bbls., dlvd. ..... lb. .15 - —
Hydroxide, gel tech., min. 15% lbs. or more, f.o.b. ship't point. .lb. .03 - .03½
ton lots, same basis. .lb. .03¼- .03¾
smaller lots, same basis. lb. .03¾- .04
9-9¼% Al_2O_3, fib. dms., works. lb. .17¾- —
contract, works. ..... lb. .16¾- —
14-15% Al_2O_3, fib. dms., Al (OH)$_3$, dms., 10,000 wks. .lb. .20¾- —
contract works. ..... lb. .19¾- —
dried, USP XII, fib. dms., works. .lb. .73 - —
contract, works. ..... lb. .75 - —
powder, tech. (see Alumina hydrate).
USP IX, bbls., dms. ..... lb. .15 - .17
Laurate, precip., bbls. ..... lb. .25 - .30
Naphthenate, 1.7% Al, 50-gal. dms., works. .lb. .19 - —
Oleate, dms., contract. ..... lb. .24½- —
Resinate, precip., dms. ..... lb. .19½- —
Stearate, dibasic, ctns., c.l. .lb. .45 - —
l.c.l. ..... lb. .46 - —
monobasic, ctns., c.l. ..... lb. .45 - —
l.c.l. ..... lb. .46 - —
tribasic, ctns., c.l. ..... lb. .50 - —
less ton quantities. ..... lb. .52 - —
Sulphate, com'l, bgs., c.l., wks., frt. equald. .100 lbs. 1.15 - 1.30
l.c.l., works, frt. equald. . 100 lbs. 1.40 - 1.50
bbls., c.l., works, frt. equald. 100 lbs. 1.55 - 1.60
l.c.l., works, frt. equald. . 100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works. . 100 lbs. 1.95 - 2.25
l.c.l., works. ..... 100 lbs. 2.35 - 2.50
Trihydrate, heavy (see Alumina hydrate).
Aluminum, 95-99%, c.l. ..... lb. .15 - —
l.c.l. ..... lb. .15 - .16
paste, lining, extra fine, 200-lb. dms. .lb. .56 - .60
ink, 150-lb. dms. ..... lb. .71 - —
standard, 200-lb. dms. ..... lb. .58 - —
lining, extra fine, 150-lb. dms. lb. .93 - —
litho, 150-lb. dms. ..... lb. .60 - —
standard, 200-lb. dms. .lb. .62 - —
rubber comp., 200-lb. dms. .lb. .42 - —
unpolished, stand., dms. ...lb. .38 - —
varnish, stand., 300-lb. dms. . lb. .42 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. drm., 1¼c. per lb. for 50-lb. drm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 20,000 lbs., and 4c. for 20,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins. ..... oz. 8.75 -12.00
Aminoethylpropanol, cns., dms., works. .lb. .58 - .60
Aminopyrine, bots., dms. ..... lb. 4.50 - 4.75
Ammonia acetate, reagent, crystals, bbls. .lb. .24 - —
purified, bbls. ..... lb. .32 - —
Anhydrous, fertiliser, tankcars, works, frt. equald. .ton.59.00 - —
pure, cyls. ..... lb. .14½- —
refrigeration, tanks, works. . ton.61.50 - —
dms., c.l. ..... lb. .02½- .03¼
l.c.l. ..... lb. .02¾- .03½
tanks, works (NH_3 content)). ton.65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, frt. alld. .lb. .43 - —
smaller lots, frt. alld. .lb. .44 - .47
Biborate, gran., powd., bbls., c.l., works. .ton.82.00 - —
ton lots, works. ..... ton.338.50 - —
less ton lots, works. ....ton.343.50 - —
Bicarbonate, dms., c.l. ..... lb. .0594- —
Bichromate, bbls., works. ....lb. .29 - .30
Bifluoride, bbls. ..... lb. .15 - .15½
Bromide, gran., NF, bbls. ....lb. .26 - —
dms. ..... lb. .20 - .22

Powdered ammonia bromide 10c. per lb. higher.

Carbonate, USP, lump, dms. lb. .06¾- .06¼
cans ..... lb. .14¾- .17½
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammonias, sal).
USP, gran., bbls., dms., kgs., lb. .19 - .15

Ammonia citrate, dibasic, bbls. lb. .75 - —
dms. ..... lb. .80 - .85
Fluoride, bbls. ..... lb. No stocks.
Hydroxide (see Ammonia, aqua).
Hypophosphite, NF, dms. ....lb. 1.26 - 1.27
jars ..... lb. 1.30 - 1.35
Iodide, NF, jars. ..... lb. 3.90 - 3.96
Linoleate, 80%, anhyd., bbls. lb. .12 - —
Molybdate, c.p., cryst., kgs. lb. 1.26 - 1.30
fine cryst., bbls., kgs. ....lb. .84 - .87
purified, dms. ..... lb. 1.10 - 1.12
Nitrate, fertilizer grade, Canadian, 32.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point. ....ton.57.00 - —
bulk, same basis. ..... ton.51.00 - —
tech., bgs., works. ....100 lbs. 4.25 - 4.50
bbls., works. ..... 100 lbs. 4.55 - —
Nitrate - limestone, 20.5% N. bgs., Hopewell, Va. ..ton.33.00 - —
Oleate, dms. ..... lb. .14 - —
Oxalate, fine gran., bbls. ....lb. .23 - —
dms. ..... lb. .25 - .29
Pentaborate, gran., bbls., c.l., works. .ton.230.00 - —
ton lots, works. ..... ton.248.50 - —
less ton lots. ..... ton.253.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs. ..... lb. No stocks
Persulphate, kgs. ..... lb. .25½- .28½
Phosphate, dibasic, NF V, bbls., kgs. .lb. .37 - .39
tech., bgs., c.l., works. .lb. .07 - —
l.c.l., works. ..... lb. .07¾- —
monobasic, pure, bbls. ....lb. .39 - .41
tech., bgs., c.l., works. .lb. .07 - —
l.c.l., works. ..... lb. .07¾- .08¾
Salicylate, NF, dms., kgs. .lb. 1.15 - 1.16
Silicofluoride, bbls. ..... lb. .15 - .16
Stearate, anhydrous, dms. .lb. .34 - —
paste, dms. ..... lb. .06½- —
Sulphamate, bbls., dms., works. lb. .18 - .20
Sulphate, bulk, producing ovens. .ton.30.00 - —
Sulphide, liquid, 40-45% basis 100%, dms., c.l., works. lb. .09 - —
l.c.l., dlvd. ..... lb. .15 - —
tanks, dlvd. ..... lb. .07½- —
red, 48%, cbys., works. ....lb. .08 - —
dms., works. ..... lb. .06 - —
yellow, 33%, cbys., works. .lb. .08 - —
dms., works. ..... lb. .06 - —
Sulphocyanide, pure, bbls. ....lb. .60 - .68
tech., bbls. ..... lb. .17 - .19
Thiocyanate (see Ammonia sulphocanide).
Thioglycollate, highly purified, 100% basis, bbls. .lb. 7.10 - 8.25
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works. .... 100 lbs. 6.95 - 7.10
l.c.l., works. ....100 lbs. 7.35 - 7.50
white, gran., bbls., c.l., works. 100 lbs. 4.75 - —
l.c.l., same basis. 100 lbs. 5.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd. .lb. .25 - —
l.c.l., dlvd. ..... lb. .25½- —
tanks, dlvd. ..... lb. .24 - —
ex-pentane, dms., c.l., frt. alld. E. of Miss. R. .lb. .22 - —
l.c.l., same basis. ..... lb. .23 - —
tanks, same basis. ..... lb. .21 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms. ..... lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works. .lb. .07 - —
l.c.l., works. ..... lb. .08 - —
tanks, works. ..... lb. .06 - —
Ether, dms., c.l., works. ....lb. .095 - —
l.c.l., works. ..... lb. .102 - —
tanks, works. ..... lb. .085 - —
Nitrite, USP, bots. ..... lb. 1.72 - 1.95
Mercaptan, dms., works. .... lb. 1.10 - —
Salicylate, prime, bots. ..... lb. .87 - —
dms. ..... lb. .77 - .81
Stearate, dms., works. ..... lb. .42 - .45½
Anethol, com'l, dms., works. .lb. .657 - .685
NF, dms. ..... lb. .80 - 1.20
Angelica dom., atropurpurea, root, bbls. .lb. 1.30 - 1.40
imported, natural, bls. ..... lb. 2.45 - 2.55
Angostura bark, bls. ..... lb. .65 - .66
Anilin oil, dms., c.l., works, frt. alld. .lb. .12 - —
l.c.l., works, frt. alld. .lb. .13 - —
tanks, works, frt. alld. .... lb. .11 - —
Salt, dms., works. ..... lb. .22 - .24
Anise, Argentine, bgs. ..... lb. .35 - .36
Chinese, Star ..... lb. .20 - .21
Cyprus, bgs. ..... lb. .35 - .36
Mexican, bgs. ..... lb. .37 - .38
Syrian, bgs. ..... lb. .35 - .36
Turkish, bgs. ..... lb. No stocks
Anisic aldehyde, dms. ..... lb. 2.60 - 3.00
cns., bots. ..... lb. 2.90 - 3.25
Annatto, paste, bxs. ..... lb. .34 - .39
seed, bgs. ..... lb. .14 - .14½
Anthracene, 80-85%, bbls., works, lb. .69 - —
90%, bbls., works. ..... lb. .81 - —
Anthraquinone, 99.5%, bbls. ....lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys. ..... lb. .17 - —
Metal, bulk, c.l., mines. ....lb. .28½- .28¾
Needle, Bolivian, brown, 67% cs. .lb. No prices.
Chinese, black, 70%, cs. ....lb. No prices.
Oxide, ceramic grade, bgs., c.l., works. .lb. .23 - —
l.c.l., works. ..... lb. .24¾- .26½
c.l., dlvd. ..... lb. .24 - —
l.c.l., dlvd. ..... lb. .24¾- .25
paint grade, bgs., c.l., works. lb. .23 - .24
l.c.l., works. ..... lb. .23¾- .25½
c.l., dlvd. ..... lb. .24 - —
l.c.l., dlvd. ..... lb. .24¾- .26
Salt, 65%, bgs., c.l., dlvd. E. of Miss. River. .lb. No stocks.
Sulphide, 65-70%, bbls., c.l., works. .lb. .17½- —
l.c.l., works ..... lb. .20 - .21
Antipyrine, bbls., kgs., ton. ....lb. 2.00 - —
smaller lots ..... lb. 2.10 - 2.20
Apomorphine, bots. ..... oz. 23.20 - 23.70
Archil extract, bbls. ..... lb. No stocks.
Areca nuts, powd., bbls. ....lb. .25 - .26
Arecoline hydrobromide, bots. oz. 6.10 - 7.10
Argols, min. 70%, bgs., shipment port, 100 kilos (100% purity). 35.00 -36.00
Arnica flowers, bbls. ..... lb. 1.00 Nom
Arrowroot, powd., bgs., bbls. .lb. .14 - .15
Arsenic, chloride (arsenous), bots. lb. 1.55 - —
Metal, lump, c.l. ..... lb. No prices.
Sulphide, yellow, bbls. ..... lb. No stocks.
Trioxide (see Acid, arsenous, White, powd., bbls., c.l. ..... lb. .06 - —
l.c.l. ..... lb. .07 - .08
Asafetida, cs. ..... lb. .65 - .70
powd., bbls., dms. ..... lb. .72 - .77
Asbestine (see Talc, N. Y., fibrous).
Asbestos, fiber, 5D and 5K, bgs., c.l. (20 tons), Cana. mines. ton.49.50 - —
5R, bgs., c.l. (20 tons), same basis. .ton.44.00 - —
6D, bgs., c.l. (20 tons) same basis. .ton.52.00 - —
7D, bgs., c.l., same basis. ton.58.50 - —
7F, bgs., c.l., same basis. ton.58.50 - —
7K, bgs., c.l., same basis. ton.19.00 - —
7M, bgs., c.l., same basis. ton.14.50 - —
7R, bgs., c.l., same basis. ton.15.50 - —
Asphaltum, Barbados, Dunellen, N. J. ..lb. .10¾- —
California, dms., c.l. ..... ton.36.40 - —
l.c.l. ..... ton.41.40 - —

Asphaltum, Cuban, A, bulk, c.l. ton.60.00 - —
l.c.l. ..... ton.90.00 - —
B, bulk, c.l. ..... ton.38.50 - —
l.c.l. ..... ton.55.00 - —
Egyptian ..... ton. No stocks.
Gilsonite, brilliant black, selects, 340° F. fusing point, bgs., mines. .ton.30.00 -32.00
270-295° fusing point, bgs., mines. .ton.30.50 - —
seconds, 300-360° F. fusing point, not uniform, bgs., mines. .ton.25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines. .ton.30.50 - —
Manjak, No 10, crude, dms., works. .lb. .06¼- .12
process form, bgs., works. .lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo mines. .ton.30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton.27.50 - —
South American, refd., dms., c.l., N. J. Refy. .ton.22.00 -23.00
l.c.l., same basis. ....ton.24.00 -25.00
tanks, same basis. ..... ton.15.00 - —
Atropine, bots. ..... oz. 9.85 - —
Sulphate, bots. ..... oz. 7.85 - —

B

Balm of Gilead buds, bgs. ....lb. 2.25 - 2.50
Barbasco root (see Cube root).
Barberry root bark, bgs. ..... lb. .78 - .80
Barbital, dms. ..... lb. 3.50 - 3.60
sodium, dms. ..... lb. 3.75 - 3.85
Barium carbonate, natural, 90% through 200 mesh, bgs., c.l., works. .ton. — - —
precip., bgs., 10 tons and up, works. .ton.67.50 -75.00
small lots, works. ....ton.74.50 -82.00
Chlorate, kgs., works. ..... lb. .27½- .31
Chloride, CP, cryst., bbls. ....lb. .25 - .27
pure, bbls., kgs. ..... lb. .10 - .12
tech., cryst., bgs., c.l., works. ton.80.00 - —
l.c.l., works. ..... ton.90.00 - —
Dioxide, dms., c.l., works. ....lb. .10 - —
l.c.l., works. ..... lb. .12 - .13
Fluoride, bbls. ..... lb. .12 Nom.
Hydrate, crystals, bbls. ..... lb. .06½- .07½
Hydroxide, bbls., works. ..... lb. .15 - .16
Iodide, bots. ..... lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works. ...lb. .09½- .11½
l.c.l., works. ..... lb. .10 - .11½
Oxide, dms., c.l., works. ..... lb. .11½- .12
l.c.l., works. ..... lb. .14 - .15
grd. dms., l.c.l., works. ....lb. .15 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls. ..... lb. .17 - .19
Stearate, ctns., 1 ton up. ....lb. .50 - —
smaller lots. ..... lb. .51 - —
Sulphate, tech. (see Barytes, and Blanc fixe).
X-ray, bbls. ..... lb. .10 - .10½
kgs. ..... lb. .12½- —
Sulphide, dms., works. ..... ton.45.50 -64.00
Barytes, water-grd., paper bgs., c.l., St. Louis. ..... ton.31.10 - —
l.c.l., same basis. ..... ton.32.10 - —
ex whse., N. Y. ..... ton.41.95 - —
Southern, off-color, bgs., mines ton.19.00 - —
95.75%, bgs., mines. ..... ton.20.00 - —
Ore, approx. 94% $BaSo_4$, bulk, mines. .ton. 8.50 -12.50
Bay leaves (see Laurel leaves).
Barberry bark, bgs. ..... lb. .12 - .13
Belladonna leaves, bls. ..... lb. 1.70 - 1.75
Root, bls. ..... lb. 1.50 Nom.
Bauxite, bulk, mines. ..... ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works. ton.11.00 - —
325 mesh, bgs., works. ....ton.16.00 - —
Benzaldehyde, NF, dms. ..... lb. .70 - 1.20
tech., cbys., dms. ..... lb. .45 - .55
Benzene (see Benzol).
Benzidin base, bbls. ..... lb. .77 - —
Benzocaine, cns. ..... lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms., works, frt. alld. up to 2c. .gal. .22 - —
tanks, E. of Omaha, same basis. .gal. .17 - —
W. Coast, Minnequa, Colo., same basis. .gal. .17 - —
Benzophenone, dms. ..... lb. 1.15 - 1.28
Benzoyl chloride, cbys. ..... lb. .25 - .28
Peroxide, pure, gran., fib. ctns., works. .lb. .90 - 1.05
Benzyl acetate, f.f.c., cns. ....lb. .75 - —
dms. ..... lb. .60 - .65
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms. ....lb. 1.00 - 1.15
Chloride, tech., cbys., works, frt. equald. .lb. .20 - —
refined, cbys. ..... lb. .21 - —
Cinnamate, cns. ..... lb. 4.00 - 6.25
Formate, cns. ..... lb. 2.10 - 3.50
Propionate, bots. ..... lb. 1.80 - 2.45
Salicylate, bots. ..... lb. 1.80 - 2.10
Benzylidinacetone, bots. ..... lb. 2.00 - 2.70
Benzylisceugenol, bots. ..... lb. 9.50 - —
Berberine bisulphate, cns. ..... lb. No stocks.
Hydrochloride, bots. ..... lb. No stocks.
Sulphate, cns. ..... lb. No stocks.
Berberis root, bls. ..... lb. .30 - .35
Betanaphthol, resublimed, dms., works. .lb. .55 - .60
tech., bbls., c.l., works. ...lb. .23 - .25
l.c.l., works. ..... lb. .26 - .28
Benzoate, fib. dms., works. .lb. 1.75 - —
Salicylate, dms. ..... lb. 5.00 - —
Betanaphthylamine, tech., works, lb. .59 - —
Betagammapicoline, dms., c.l., works. .lb. .24½- —
l.c.l., works ..... lb. .26 - —
Betapicoline, 50%, ret. dms., c.l., works. .lb. 1.60 - —
l.c.l., works ..... lb. 1.85 - —
95%, dms., works. ..... lb. 2.05 - —
98-99%, works ..... lb. 2.20 - —
Beth root, bls. ..... lb. .55 - .60
Bismuth chloride, jars. ..... lb. 4.35 - —
Citrate, USP VIII, jars. ..... lb. 2.97 - —
Hydroxide, bots., dms. ..... lb. 3.80 - 3.91
Metal, ton lots. ..... lb. 2.00 - —
Nitrate, cryst., cns. ..... lb. 1.60 - —
Oxychloride, cns., bots., dms. lb. 3.60 - 3.80
Oxide, anhydrous, bots., dms. lb. 4.20 - 4.31
Subcarbonate, USP, dms. ....lb. 2.40 - 2.43
Subgallate, NF, fib. dms. ....lb. 2.35 - 2.38
Subiodide, fib. dms. ..... lb. 4.13 - —
Subnitrate, USP, powd., dms. lb. 2.00 - 2.03
Subsalicylate, USP, dms. ....lb. 2.90 - —
Sulphocarbolate, fib. dms. ....lb. 4.05 - —
Bismuth-ammonia citrate, USP, powd., dms. .lb. 3.70 - —
Black, acetylene, bgs., c.l., works. lb. .14 - —
l.c.l., works ..... lb. .15 - —
Bone 1A, bgs., bbls., c.l., frt. alld dest. .lb. .19½- —
1, bgs., bbls., c.l., same basis. lb. .17¾- —
2, bgs., bbls., c.l., same basis. lb. .16 - —
3, bgs., bbls., c.l., same basis. lb. .15 - —
4, bgs., bbls., c.l., same basis. lb. .14 - —
5, bgs., bbls., c.l., same basis. lb. .11½- —
6, bgs., bbls., c.l., same basis. lb. .11½- —
457, bgs., bbls., c.l., same basis. .lb. .11¾- —
Black, bone, 7, bgs., bbls., c.l., same basis. .lb. .14½- —
8, bgs., bbls., c.l., same basis. lb. .15½- —
400A, bgs., bbls., c.l., same basis. .lb. .08½- —

Bone black l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.

Carbon, channel, compressed, beads, bulk, c.l., works lb. .08 - —
bgs., c.l., works. ..... lb. .0632- —
l.c.l., works. ..... lb. .07 - —
dlvd. or whse. ..... lb. .103 - —
uncompressed, regular, bgs., c.l., works. .lb. .074 - —
bgs., ctns., l.c.l., dlvd. or whse. .lb. .11¾- —
furnace, HMF, bgs., c.l., works. .lb. .05 - —
ctns., l.c.l., whse. ..... lb. .09 - —
SRF, bgs., c.l., works. ....lb. .03½- —
ctns., l.c.l., whse. ..... lb. .075 - —
Thermatonic, bgs., c.l., works, La. .lb. .04 - —
l.c.l., whse., Trenton, N. J., lb. .06½- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure, bgs., l.c.l., works. .lb. .09 - —
Lamp, 1, ctns., c.l., works. .lb. .06¼- —
l.c.l., works. ..... lb. .09 - —
2, ctns., c.l., works. ..... lb. .10 - —
l.c.l., works. ..... lb. .11 - —
2A, ctns., c.l., works. ..... lb. .12 - —
l.c.l., works. ..... lb. .13½- —
3, ctns., c.l., works. ..... lb. .14½- —
l.c.l., works. ..... lb. .15¼- —
4, ctns., c.l., works. ..... lb. .16½- —
l.c.l., works. ..... lb. .17½- —
5, ctns., c.l., works. ..... lb. .20 - —
l.c.l., works. ..... lb. .20 - —
6, ctns., c.l., works. ..... lb. .25½- —
l.c.l., works. ..... lb. .27½- —
7, ctns., c.l., works. ..... lb. .37½- —
l.c.l., works. ..... lb. .38½- —
Mineral, vine type, bgs., l.c.l., works. .lb. .03 - —
Vine A, bgs. ..... lb. .03¾- .04
B, bgs. ..... lb. .05¾- .06
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root bark, bls. ....lb. .80 - .85
Tree bark, bls. ..... lb. .35 - .43
Black Indian hemp root, bls. .lb. .55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works. .ton.67.50 - —
l.c.l. works. ..... ton.72.50 - —
direct process, bgs., l.c.l., N.Y. whse. .ton.95.00 - —
barrels, N.Y. whse. ton.100.00 - —
bgs., c.l., works. ..... ton.77.50 - —
l.c.l., works. ..... ton.82.50 - —
bbls., c.l., works. ..... ton.82.50 - —
l.c.l., works. ..... ton.87.50 - —
soluble, bgs., l.c.l. ..... lb. .17 - —
pulp, 66%, bbls., c.l., works. ton.55.00 - —
l.c.l., same basis. ....ton.60.00 - —
Bleaching powder, dms., c.l., works. .100 lbs. 2.75 - 3.00
l.c.l., works. ..... 100 lbs. 3.25 - 3.75
bbls., c.l., works. ..... 100 lbs. 3.25 - —
l.c.l., works. ..... 100 lbs. 3.75 - —
Blood, dried, 16-16½% ammo., bgs. .unit-ton. 8.00 - —
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 8.00 - —
soluble, bgs., l.c.l. ..... lb. .17 - —
Bloodroot, bls. ..... lb. .65 - .70
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
toner bbls., same basis. ....lb. 1.10 - —
Celestial, bbls., same basis. .lb. .10 - .12
Chinese, bbls., same basis. .lb. .36 - —
Cobalt, genuine, bbls., same basis. .lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper, phthalocyanin, full strength, bbls., same basis. lb. 3.50 - 3.75
80%, bbls., same basis. .lb. 3.00 - —
green shade, bbls., same basis. lb. 4.50 - 4.90
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Milori, bbls., same basis. ....lb. .36 - —
Molybdated, Victoria, bbls., same basis. .lb. 3.15 - —
Peacock, fugitive, 100% color strength, same basis. .lb. .32 - —
permanent toner, green shade, molybdic, bbls., same basis. lb. 3.50 - —
tungstic ..... lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .46 - —
Prussian, bbls., same basis. .lb. .42 - —
soluble, bbls., same basis. lb. .42 - —
Soda, CP, bronze, bbls., same basis. .lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .24 - .28
jobbing type, dry, bbls., same basis. .lb. .13 - .14
regular types, dry or pulp, bbls., same basis. .lb. .18 - .19
Victoria, toner, molybdic, bbls. lb. 3.15 - —
tungstic, bbls. ..... lb. 3.30 - 3.55
ink toner, bbls., same basis. lb. 1.83 - —
synthetic vehicle, bbls., same basis. .lb. 1.98 - —
Violet toner, molybdic, bbls., same basis. .lb. 1.24 - —
tungstic, kgs., same basis. lb. 2.10 - —

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.5c. higher Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita; frt. equalized with Chicago.

Blue dye sare listed under Dyes.

Blue mass, NF, cns., tube. ....lb. 1.53 - —
powd., bots., cns., dms. ..... lb. 1.61 - 1.76
Bluedag, root, bls. ..... lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls. ..... lb. .11 - .12
Bone, raw bulk, Chicago. ....ton.75.00 - —
junk, bulk, same basis. ....ton.50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works. ton.65.00 - —
Chicago, works. ....ton.75.00 - —
steamed, feeding grade, 1% ammon., 60% phos., kgs., E. works. .ton.70.00 - —
Chicago, works. ....ton.75.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works ton.60.00 - —
Chicago, works. ....ton.60.00 - —
Phosphate, defluorinated (see D.).
Precipitated (see Calcium phosphate tribasic precip.).
Boneset leaves, bls. ..... lb. .17 - .18
Borage flowers, bls. ..... lb. .60 - .65

OPD—2-24-1947

SODIUM PERBORATE

●

We have on hand both the U.S.P. and Technical grades, packed in barrels of 250 pounds net each.

Both grades are of uniform production, having 10% available oxygen. The U.S.P. grade is made for pharmaceutical products. The Technical grade is adapted for bleaching and is used in some instances as a substitute for hydrogen peroxide.

Whether you require a single barrel or a carload, you will find us in a position to be of immediate service.

WILLIAM D. NEUBERG COMPANY
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Chemicals
GRAYBAR BUILDING • 420 LEXINGTON AVE. • NEW YORK 17, N. Y.
TELEPHONE LEXINGTON 2-3324
CABLE—"WILNEUBERG"

Borax, tech., 99½% fine gran., bulk, works..ton.44.50 -47.50
paper bgs., c.l., works, frt. alld..ton.48.60 -51.00
ton lots, ex whse. N. Y. or Chi..ton.66.00 - —
less ton lots, same basis. ton.71.00 - —
bbls., c.l., frt. alld....ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.86.00 - —
less ton lots, same basis. ton.91.00 - —
coarse gran., cryst., paper bgs., c.l., works, frt. alld..ton.53.50 -56.00
ton lots, ex whse. N. Y. or Chi..ton.71.00 - —
less carlots, same basis. ton.76.00 - —
bbls., c.l., works, frt. alld..ton.73.50 - —
ton lots, ex whse. N. Y. or Chi..ton.91.00 - —
less carlots, same basis. ton.96.00 - —
USP, $15 per ton higher.
Bordeaux mixt., bgs., c.l., whse., works, frt. alld..lb. .15 - .22½
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis.lb. .28 - —
Brazilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - 1.70
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., 100-lb. cns., dms., works..lb. .50 - .60
gold, moulding, 100-lb. cans, dms., same basis..lb. .80 - 1.00
printing ink, 100-lb. cns., dms., same basis..lb. .95 - 1.10
radiator, 100-lb. cns., dms., same basis..lb. .60 - .65
Broomtop, bls. .....lb. .29 - .30
Brown, iron-oxide, pure, precip., cks., works..lb. .10¼- .10½
Metallic, bgs., c.l., works.lb. .02½- .02¾
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, bbls., works..lb. .06½- .06
pap. bgs., l.c.l., same basis..lb. .04 - .04½
Italian type, bbls., works. lb. .06¾- .06¾
raw, American, bgs., l.c.l., works..lb. .04¾- .05
Italian type, bbls., works lb. .08 - .10
Umber, burnt, American, bbls., works..lb. .06¼- —
Italian-type, bbls., works.lb. .04¾- —
Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .05 - .05¼
St. Louis, Chicago, Indianapolis, New Orleans..lb. .05½- —
Minneapolis .....lb. .0560- —
Pittsburgh .....lb. .05¼- —
Los Angeles .....lb. .06¼- —
Portland, San Francisco, Seattle..lb. .05¾- —
ex whse., Los Angeles, lb. .06¼- —
Portland, San Francisco, Seattle..lb. .06 - —
Vandyke, reg., bbls., works.lb. .09 - —
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .38 - .42
Sulphate, cns., 100 ozs.....oz. .32 - .34
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. 1.05 - 1.10
Buckthorn bark, bls.....lb. .33 - .40
cut and sifted, bbls.....lb. .49 - .50
Berries, bgs.....lb. 1.00 - 1.10
Burdock root, bls.....lb. .57 - .65
Burgundy pitch, dom., dms. incl., wks., South..100 lbs.10.46 -11.10
Butane, indust., tanks, Group 3. gal. .06¼- —
Butyl acetate, normal, ferment, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R..lb. .26½- —
l.c.l., same basis..lb. .27 - —
tanks, same basis...lb. .25 - —
tankwagon, same basis. lb. .25½- —
other production, dms., c.l., same basis..lb. .27 - —
l.c.l., same basis....lb. .27½- —
tanks, same basis....lb. .26 - —
synthetic, dms., c.l., same basis..lb. .15½- —
l.c.l., same basis..lb. .16 - —
tanks, same basis...lb. .14½- —
secondary, dms., c.l., dlvd. E. of Miss. R..lb. .1210- —
l.c.l., same basis.....lb. .1260- —
tanks, same basis.....lb. .1150- —
Normal butyl acetate, W. of Miss. R., ¼c. per lb. higher.
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .38½- —
l.c.l., same basis.....lb. .39 - —
tanks, same basis.....lb. .37 - —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. No prices
Butyl oleate, ref., dms., l.c.l., works..lb. .35 - —
tech., dms., c.l., works....lb. .34 - —
l.c.l., works.....lb. .34½- .35½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. .16½- .17
tanks, dlvd.....lb. .15½- —
Stearate, dms., l.c.l., frt. alld. E. of Rockies..lb. .47½- —
Butyric ether, bots.....lb. 6.50 - 6.90
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —

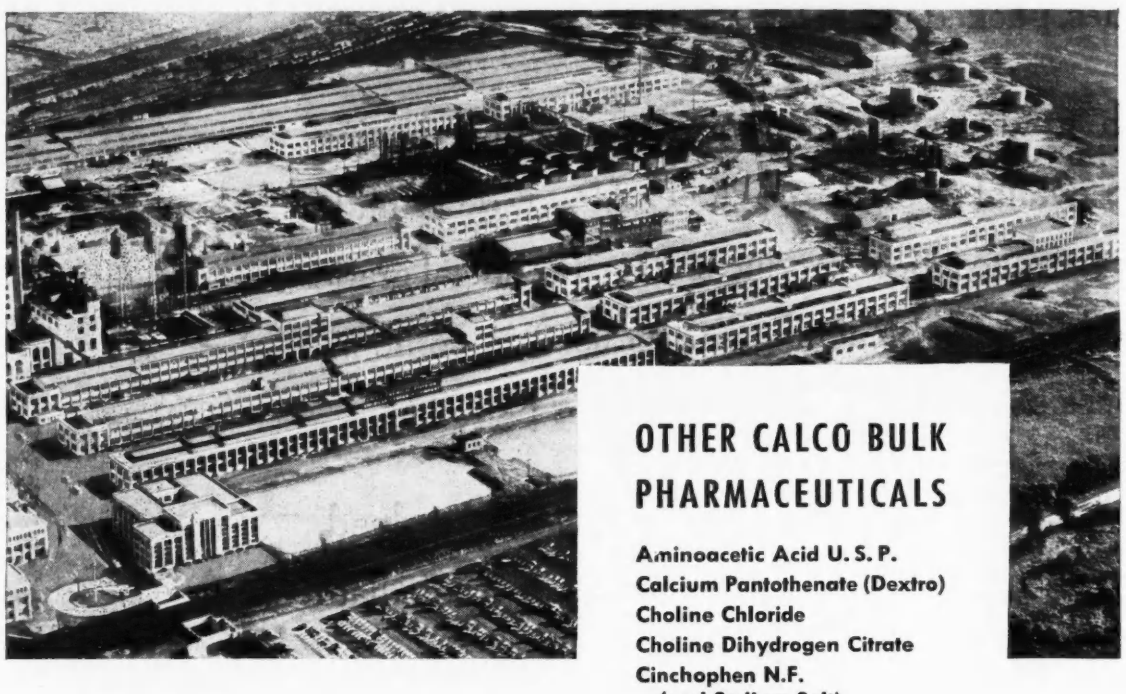
C

Cadmium bromide, jars.....lb. 1.00 - 1.01
Iodine, cns.....lb. 4.49 - 4.64
Lithopone (see Yellow).
Metal, ingots or sticks, dlvd.. lb. 1.75 - 1.80
pat. shapes, cs., dlvd.....lb. 1.75 - 1.80
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, dms., 100 lbs. or more. lb. 3.75 - 7.00
anhydrous, dms., 100 lbs. or more..lb. 4.00 - —
Citrated, dms., 100 lbs. or more. lb. 2.50 - —
Hydrobromide, bots.....lb. 5.91 - 5.99
Calabar beans, bgs., futures..lb. .65 - .66
Calamus root, natural, dom., bls. lb. .40 - .45
imported, bleached, bls..lb. .70 - .80
Calciferol, in corn oil, dms., 10,000 units or more, works. unit. .10 - —
1,000 to 10,000 units, works. unit. .11 - —
less than 1,000 units, works.. unit. .12 - —
Calcium acetate, bgs., dlvd.... 100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., wks., frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .10 - .11
Bromide, N.F., jars.....lb. .65 - .70
Carbide, dms., c.l., works, ton.50.00 - —
dlvd. .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., dlvd..ton.21.50 -38.00
l.c.l., dlvd.....ton.31.50 -48.60
liquor, basis 40%, tanks, works..ton. 8.50 - —
solid, 73-75%, dms., c.l., dlvd. ton.21.00 -37.50
l.c.l., dlvd.....ton.31.00 -54.15

Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in paper bags, $2.50 per ton; for burlap bags, drums, $3.50 per ton over paper bags.

Cyanide, dms., delivered E. of Rockies..lb. .20 - .40
Gluconate, USP, bbls.....lb. .58 - .65
cns. .....lb. .76 - .83
Calcium, gluconate, AA grade, 7c. per lb. higher.
Hydride, dms., works.....lb. .90 - —
Glycerophosphate, N.F., fib. dms..lb. 1.90 - —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..dm.24.00 -28.50
cans, 45-lb. cases, same basis. cs.19.75 -21.50
Iodide, jars .....lb. 4.12 - —
Lactate, USP, powd., dms...lb. .40 - .42
Laurate, bbls. .....lb. .28 - .30
Mandelate, USP, dense, fluffy, works, dms..lb. 2.05 - 2.30
Naphthenate, 5% Ca, 50-gal. dms..lb. .25½- .26½
Pantothenate, dex., 100-gram bots, works..per gram. .10 - .12
Phosphate, feeding grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 or over, works..lb. .07 - .07¾
less than 10, works.....lb. .06 - .10
medicinal, dibasic, bgs. 100 lbs.11.40 -18.00
monobasic, cryst., bgs., c.l., works, frt. equald..lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .0680
Phytate, bgs., works.....lb. .16 - .17
Resinate, precip., 5.8% Ca, 100-lb. dms..lb. .19 - —
Silicate, hydrated, c.l., bgs., works..lb. .05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., 2,000 lbs. to c.l., works..lb. .47 - —
less than ton lots, works.lb. .48 - —
Sulphate (see Gypsum).
Sulphide, 70%, bgs., c.l., works. ton.45.00 - —
80%, bgs., c.l., works...ton.50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms..lb. .49 - .54
Tallate, 3%-4% Ca, 50-gal. dms. lb. .18¼- .19¼
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.00 - 1.50
fine particle size, works. lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 1.15 - 1.30
Calomel, USP, dms.....lb. 2.10 - 2.11
fine powd., dms.....lb. 2.25 - 2.26
Camphor, monobromated, dms.lb. 3.20 - —
Camphor, natural .....lb. No stocks.
synth., tech., bbls., contract, 2,000 lbs. or more, works.lb. .54 - —
10 bbls. (1,500 lbs.)....lb. .56½- —
5 to 9 bbls. .....lb. .57 - —
1 to 4 bbls.....lb. .58 - —
smaller lots.....lb. .60 - .67
USP, gran., powd., bbls., 2,000-lb. lots..lb. .61 - —
1,000-lb. lots.....lb. .62 - —
smaller lots.....lb. .63 - —
tablets, 2,000-lb. lots....lb. .94 - —
1,000-lb. lots .....lb. .95 - —
smaller lots .....lb. .96 - —
Canada balsam (see Fir balsam).
Cantharides, Russian, bgs.....lb. 7.50 Nom.
Chinese, cs.....lb. 5.45 - 5.75
powd., bxs.....lb. 5.70 - 6.00
Capsicum (see Pepper, red).
Capsicum oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. .70 - 1.10
Caraway seed, California, Dutch type..lb. .25½- .28
Danish, bgs.....lb. .25½- .28
Dutch, bgs. .....lb. .25¾- .26¼
futures, bgs. .....lb. .26 - .26¼
Roumanian, bgs.....lb. .22 Nom.
Swedish, bgs. .....lb. .23½- .24
Carbazole, 95%, dms., ton lots, works..lb. .81 - —
smaller lots, works.....lb. .91 - —
85%, dms., ton lots, works..lb. .75 - —
smaller lots, works.....lb. .85 - —
Carbinol, butyl, norm. dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works, lb. .70 - —
Isobutyl, dms., c.l., works..lb. .51 - —
l.c.l., works .....lb. .52 - —
tanks, works .....lb. .50 - —
Methylisobutyl, dms., c.l., nearest delivery point buyer's works..lb. .12¾- —
l.c.l., same basis.....lb. .12¼- —
tanks, same basis.....lb. .11¾- —

Let CALCO supply you SULFA DRUGS



CALCO, in its great plants at Bound Brook, N. J., produces a wider range of SULFA DRUGS than any other manufacturer in the world. In these giant-capacity plants, rigid inspection from laboratories through to finished big-scale production assures a uniform high excellence of quality and an assured source of supply. This is why you will find it advantageous to look to CALCO for these sulfonamides:

SULFADIAZINE USP

"King of the Sulfonamides"

Powder...or...Micro Crystal

Sodium Sulfadiazine USP
Sulfamerazine
Sodium Sulfamerazine
Sulfanilamide USP (powder, crystal, micro crystal)
Sulfathiazole USP (powder, crystal, micro crystal)
Sodium Sulfathiazole USP
Sulfapyridine USP
Sodium Sulfapyridine

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OTHER CALCO BULK PHARMACEUTICALS

- Aminoacetic Acid U. S. P.
- Calcium Pantothenate (Dextro)
- Choline Chloride
- Choline Dihydrogen Citrate
- Cinchophen N.F. (and Sodium Salt)
- Neocinchophen U. S. P.
- Mandelic Acid U. S. P. (and Calcium Salt)
- Menadione U. S. P.
- Methylene Blue U. S. P. (powder or crystals)
- Nicotinic Acid U. S. P.
- Nicotinamide U. S. P.
- Saligenin
- Thiouracil
- Phenothiazine N.F. (Regular and Drench grades for Veterinary use)
- Certified Colors for Pharmaceutical and Cosmetic Use

Pharmaceutical Department
Calco
REG. U. S. PAT. OFF.
CALCO CHEMICAL DIVISION
AMERICAN CYANAMID COMPANY
Bound Brook, New Jersey

Carbon bisulphide, 50-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis, lb. .07 - .07¼
l.c.l., same basis.....lb. .08 - .08¼
Dioxide, cyls. .....lb. .06 - .08
Tetrachloride, c.p., dms., c.l., lb. .08 - —
l.c.l. .....lb. .08½- —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..lb. .06 - —
l.c.l., frt. alld.....lb. .06½- —
Zone 2, 52½-gal. dms., c.l., frt. alld..lb. .06½- —
l.c.l., frt. alld.....lb. .07 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
Zone 4, 52½-gal. dms., c.l. lb. .06½- —
frt. alld.....lb. .06½- —
l.c.l., frt. alld.....lb. .07 - —
USP, cbys.....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Mo., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom, bleached, bold, cs., lb. 1.75 - 1.80
medium, cs.....lb. 1.55 - 1.60
decorticated, Guatemala, cs..lb. 1.40 - 1.45
India, cs.....lb. 1.45 - 1.50
green, Alleppey, bgs.....lb. 1.05 - 1.10
Carotene, cryst., 1,350,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%; beta, 90%), amps. 100 grams, dlvd..gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works. lb.37.80 - —
50,000 USP units per gm., bots., works..lb. 8.43 - —
dms., works.....lb. 7.68 - —
3,000 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works, 1,000,000 units. .60 - —
3,300 USP units per gm., dms., works..lb. .66 - .71
Carvol, bots. .....lb.14.75 -22.50
Cascara sagrada bark, bulk..lb. .40 - .43
Case-hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs, dms., l.c.l.....lb. .08¾- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. No prices
2,000 lbs. or more, but under 10,000 lbs., same basis..lb. No prices
less than 2,000 lbs., same basis..lb. No prices
rennet-precip., 10,000 lbs. or more, same basis..lb. No prices
2,000 lbs. or more, but under 10,000 lbs., same basis..lb. No prices
less than 2,000 lbs.....lb. No prices
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. No prices
rennet-precip., unground, 100 bgs. or more..lb. No prices
Cassia, Batavia No. 1, Thinquill bls..lb .60 Nom.
No. 1, regular, bls.....lb. .37 - .38
shortstick, bls.....lb. .50 Nom.
broken, bls.....lb. .36 - .37
China buds, bgs.....lb. .33 - .33½
rolls, selected, cs.....lb. .13 - .13½
extra select, broken, bls..lb. .12½- .13
Kwangsi, broken, bls.....lb. .15½- .16
Saigon, all medium.....lb. .30 - .31
4-10-4, bls.....lb. .30 - .31
broken, bls.....lb. .26 - .27
Yunnan, bls.....lb. .22 - .23
Cassia fistula, bakts.....lb. .26 - .28
Castor beans, bgs., Brazilian ports, long ton.275.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works..ton.37.50 - —
Castoreum, nat., cns.....lb. 8.00 -13.00
synthetic, cns.....lb.10.00 -21.00
Catechol, CP, cryst., works, fib. dms..lb. 2.00 - —
resublimed, works, dms....lb. 3.25 - —
Catnep, bls. .....lb. .65 - .70
Celery seed, French, bgs.....lb. .31 - .32
Indian, bgs.....lb. .23½- .24
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.lb. .42 - —
Acetate-butyrate, flake, high (36.5%) butyrl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld.....lb. .51 - —
1,000-4,900 lbs. frt. alld..lb. .52 - —
50-lb. ctns., 100-900 lbs., frt. alld..lb. .53 - —
smaller pkgs., works.lb. .54 - —
medium (15.5 or 17.0%), 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .49 - —
1,000-4,900 lbs., frt. alld..lb. .50 - —
100-900 lbs., frt. alld..lb. .51 - —
smaller pkgs., works..lb. .52 - —
Granules are 6c. per lb. higher, all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .40 - —
Cerium hydrate, dms., works..lb. 1.00 - —
Oxalate, NF, bbls., kgs., works. lb. .70 - .72
Oxide, optical grade, kgs., 100-lb. lots, works..lb. 1.75 - —
bgs., smaller lots, works.lb. 2.25 - —
Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02¾- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
rubbermakers, bgs., b c.l., works..ton.30.00 - —
Chamomile, Hungarian, cs., futures..lb. .70 - .75
Roman, bls., futures.....lb. 1.40 - 1.45
Charcoal, hardwood, lump, bulk, c.l., works..ton.39.50 -43.50
bur, bgs., extra, returnable, c.l., works..ton.42.50 -45.50
briquets, bulk, c.l., works.ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., wks. ton.50.50 - —
screenings, bgs., works...ton.33.50 - —
Pinewood, lump, bgs., c.l., works, South..ton.35.00 - —
granular, powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works.....ton.50.00 -60.00
Willow, powd., bbls.....lb. .06 - .07

Chestnut extract, 25% tannin, bbls., c.l., works.....lb. .0435- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
powdered, 65% tannin, bags extra, c.l., works.....lb. .1040- —
l.c.l., works.....lb. .1115- —
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works....ton.16.00 - —
bulk, c.l., works.ton. 9.00 - —
200 mesh, bgs., c.l., works..ton.12.00 - —
l.c.l., works.....ton. 9.50-15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works.ton.12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.20.00 -22.00
powd., cks., l.c.l., ex whse. ton.45.00 - —
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Chlorinated rubber, standard, ctns., 100 lbs. up, works.lb. .40 - —
smaller lots, works.....lb. .43 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l., del. lb. .06¾- —
contracts, del. .....lb. .06¾- —
l.c.l., del. .....lb. .08¾- —
tanks, single units, works, frt. equald..100 lbs. 2.00 - —
multiple units, 3 cars or more, works, frt. equald. 100 lbs. 2.30 - —
2 cars, 2 works, frt. equald..100 lbs. 2.90 - —
1 car, 1 works, frt. equald. 100 lbs. 3.50 - —
Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33

Chloropicrin, com'l, 180-lb. cyls. lb. .80 - —
100-lb. cyls., same basis.lb. .82 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, fib. dms., works. lb. 3.00 - 3.10
feed grade, fib. dms., works. lb. 2.00 - —
Dihydrogen citrate, fib. dms., works..lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Fluoride, bbls., works.....lb. .24 - .27
Cake, bulk, c.l., works.....ton.16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 6.02 - 8.00
Cinchona bark, red, quill, USP, 10-in., can..lb. 1.26 Nom.
Cinchonidine, small, cryst., cns., 100 ozs..oz. 1.02½- —
Cinchonine, small, cryst., cns., 100 oz..oz. .75½- —
large, cryst., cns., 100 ozs..oz. .79½- —
sulphate, NF, cns., 100 ozs..oz. 55½- —
Cinchopen, NF, heavy, dms., works..lb. 4.20 - 4.30
standard, dms., works.....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms..lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls., futures..lb. .80 - .82
Citral, bots., cns.....lb. 7.25 - 9.65
Citronellal, bots., dms.....lb. No prices.
Citronellol, bots., dms.....lb. 5.70 -12.50
Clove, Madagascar, bls.....lb. .14 - .14¼
futures, bls.....lb. .14½- .15
Zanzibar, bls.....lb. .16¾- .17¼
Clover tops, red, dom., bgs.....lb. .70 - .75
imported, bgs. .....lb. No stocks.

Coaltar, coal-gas, crude, 50 gal., bbls., c.l., works..bbl. 8.25 - 8.50
l.c.l., works.....bbl. 9.50 - —
tanks, works.....gal. .08 - .08¾
refd., 50-gal. bbls., c.l., works. bbl. 8.75 - 9.00
l.c.l., works.....gal. 9.50 - —
tanks, works.....gal. .10 - .10¼
water-gas, crude, 55-gal. dms., c.l., works..bbl. 8.50 - —
l.c.l., works .....bbl. 9.00 - —
refd., 55-gal. dms., c.l., works. dm. 9.00 - —
l.c.l., works .....dm. 9.50 - —
Cobalt acetate, bbls., kgs., dlvd. lb. .83¾-
feed grade, 23¼% Co, kgs..lb. 1.25 - —
Carbonate, powd., bgs., works. lb. 1.56 - —
feed grade, 49½% Co, kgs.lb. 1.85 - —
Chloride, kgs., works.....lb. .87½-
feed grade, 24.5% Co, kgs.lb. 1.25 - —
Hydrate, bbls.....lb. 2.04 - —
feed grade, 62% Co, kgs....lb. 2.25 - —
Linoleate, paste, 6%, dms...lb. .60 - —
solid, 3½%, dms.....lb. .67 - —
Naphthenate, 18% Co, solid, dms..lb. .35 - —
Nitrate, feed grade, 20.4% Co, kgs..lb. 1.25 - —
Oleate, bbls.....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.84 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.75 - —
Resinate, precip., 7.5% Co, 100-lb. dms..lb. .38½- —
Soyate, 3%-3.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate, dms.....lb. .05 - —
feed grade, 21% Co, kgs....lb. 1.00 - —

Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.

Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, cns..oz. 9.75 - —

Spot Deliveries

CAFFEINE, Citrated U.S.P.
PHOSPHORIC ACID, U.S.P., Syrupy
CAUSTIC POTASH, Solid
POTASSIUM PERMANGANATE
MAGNESIUM METAL POWDER, High Purity
HEAVY CALCINED MAGNESIA, White
PHOSPHORUS, Red Amorphous
CAUSTIC SODA
SODIUM BICHROMATE
TARTARIC ACID, U.S.P.
BLEACHING POWDER, High Test
SILVER CYANIDE
TETRACHLOROETHANE
ATABRINE TABLETS

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NICKEL OXIDE, etc.

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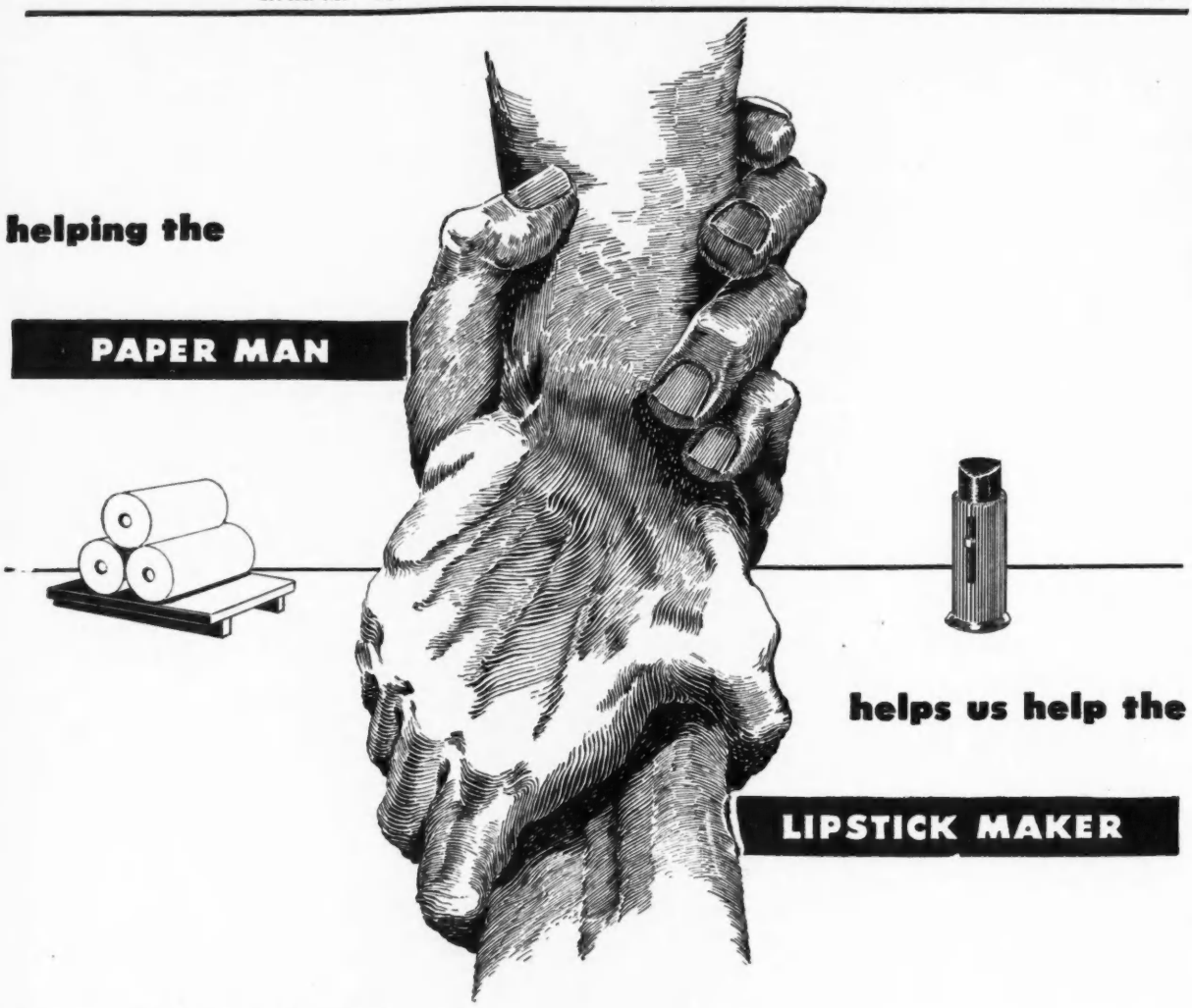
Cochineal, gray, bgs.	lb.	.65 -	.66
silver, Teneriffe, bgs.	lb.	.66 -	.69
Cocoa butter, bulk, ship. pt.	lb.	.38 -	—
Cocillana bark, bgs.	lb.	.53 -	.54
Codeine, cns., 100 ozs.	oz.	11.70 -	—
Hydrochloride, cns., 100 ozs.	oz.	10.50 -	—
Phosphate, cns., 100 ozs.	oz.	9.00 -	—
Sulphate, cns., 100 ozs.	oz.	9.50 -	—
Codliver oil(see Oil, codliver).			
Cohosh root, black, bls.	lb.	.24 -	.25
blue, bls.	lb.	.24 -	.25
Colchinine, bots., cns.	oz.	No stocks.	
Colchicum seed	lb.	No stocks.	
Collodion, USP, dms.	lb.	.24 -	.29
Flexible, USP, dms.	lb.	.25½-	.30½
Colocynth pulp, bls.	lb.	.52 -	.53
Colombo root, bls.	lb.	.17 -	.18
Coltsfoot leaves, bgs.	lb.	.50 -	.55
Condurango bark, bgs., futures,	lb.	.28 -	.29
Copaiba balsam, Para, cns.	lb.	No stocks.	
S. A., USP, cns.	lb.	1.10 -	1.15
Copper acetate, cupric, bbls., works	lb.	.28 -	—
smaller containers, wks.	lb.	.29 -	.30
Carbonate, 52-54%, bbls.	lb.	.23 -	.24
Chloride, anhyd., bbls.	lb.	.25½-	—
crystals, bbls.	lb.	.17 -	—
Cyanide, tech., bbls.	lb.	.40½-	—
Hydrate, dms.	lb.	.25 -	.25½
Metal, electrolytic	lb.	.19½-	—
Naphthenate, 8% Cu, liquid, dms., dlvd.	lb.	.20½-	—
solid, dms., dlvd.	lb.	.34 -	—
Nitrate, tech., cryst., bbls., wks.	lb.	.19½-	.20½
Oleate, precip., bbls.	lb.	.22½-	.23½
Oxide, black, bbls., works	lb.	.25 -	—
red, com'l, bbls., works.	lb.	.26 -	—
Oxychloride-sulphate,* bgs.	lb.	.17 -	.30
Resinate, precip., 8.5% Cu, 125-lb. dms.	lb.	.20½-	—
Stearate, bgs., works.	lb.	.35½-	—
Sulphate, 99%, cryst., bgs., c.l., works	100 lbs.	7.10 -	—
l.c.l., 100 to 36,000 lbs.	100 lbs.	7.35 -	8.10
Copperas, cryst., gran., bgs., c.l., works	ton.	17.00 -	—
l.c.l., works	100 lbs.	1.55 -	2.00
bbls., c.l., works	ton.	20.00 -	—
bulk, c.l., works	ton.	14.00 -	—
Copra, c.i.f. Pacific ports	ton.	214.00 -	217.00
c.i.f. Atlantic or Gulf ports.	ton.	220.00 -	223.00
Coriander seed, Argentine, bgs.,	lb.	.05¾-	.06¼
Indian, bgs.	lb.	No stocks	
Italian, bgs.	lb.	.06¼-	.06¾
Morocco, bgs.	lb.	No stocks	
Peruvian, bgs.	lb.	.07 -	.07½
Corn silk, bls.	lb.	.55 -	.60
Corn sugar, tanners, chipped, bgs., c.l., 60,000 lbs. min.	100 lbs.	4.59 -	—
bbls., c.l., same basis	100 lbs.	4.63 -	—
Syrup, 42°, bbls., c.l.	100 lbs.	4.95 -	—
l.c.l.	100 lbs.	5.10 -	—
Corrosive sublimate, USP, cryst., dms., 50 lbs. or more.	lb.	1.03 -	—
gran., powd., dms., 50 lbs. or more.	lb.	1.78 -	—
Cottonroot bark, bls.	lb.	.40 -	.45
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd.	unit-ton.	No prices	
Meal, 41% protein, bulk, mills, southeast, c.l.	ton.	57.00 -	58.00
Coumarin, cns., 5 lbs. or more.	lb.	2.75 -	3.25
smaller lots	lb.	2.90 -	3.30
Cramp bark, NF, bls.	lb.	.75 -	.80
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship't.	lb.	.45½-	—
smaller lots, bbls., kgs.,	lb.	.46 -	.46½
Creosote carbonate, bots., cbys.,	lb.	2.30 -	2.40
Coaltar (see Cresol).			
Oil, coaltar, crude, tanks works	gal.	.17 -	.17⅛
Creosote oil, refined, dms., c.l., works.	gal.	.26½-	.34½
l.c.l., same basis	gal.	.29 -	.39
tanks, same basis	gal.	.20 -	.21
solution, tanks, works	gal.	.156 -	.16
Wood beech, bots., cbys.	lb.	1.05 -	1.10
Hardwood, N.F., bots., cbys.	lb.	.80 -	.97
Pine, dms.	gal.	.31 -	.32
Cresol, special resin grades, dms., c.l., works, frt. equald.	lb.	.12¼-	.13¼
l.c.l., same basis	lb.	.13 -	.13¾
tanks, same basis	lb.	.11¾-	.12⅛
USP, dms., c.l., same basis.	lb.	.13¼-	.13¾
l.c.l., same basis	lb.	.13¾-	.14¼
tanks, same basis	lb.	.12½-	.13
Crotonaldehyde, 91-93%, 55 and 110 gal. dms., l.c.l., works.	lb.	.17 -	—
5 and 10-gal. dms., l.c.l. works.	lb.	.20½-	—
Cryolite, dealers, nat., bgs., bbls., c.l., works.	100 lbs.	.12¾-	—
bbls., l.c.l., works	100 lbs.	.14 -	—
synth., bgs., bbls., c.l., frt. alld. E. of Miss. R.	lb.	— -	—
l.c.l., works	lb.	— -	—
Cube root, 5% rotenone, bbls., works.	lb.	.45 -	—
4% rotenone, bbls., works.	lb.	.36 -	—
Cubeb berries, XX, bgs.	lb.	.85 -	.90
powd., cs.	lb.	1.10 -	1.20
Culvers root, bls.	lb.	.70 -	.75
Cumin seed, Cyprus, bgs.	lb.	No stocks	
Indian, bgs., futures	lb.	.40 -	.41
Morocco, bgs.	lb.	No stocks	
Persian, bgs.	lb.	.31½-	.32
Syrian, bgs.	lb.	.31½-	.32
Cutch, bgs.	lb.	No stocks	



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Cyanamide, fertilizer mixing grades, guaranteed 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk,	unit-ton.	1.85 -	—
21% N., pulv., bgs., same basis.	unit-ton.	1.75 -	—
Cyclohexane, tech., dms., c.l., works.	lb.	.09 -	—
l.c.l., works	lb.	.09½-	—
tanks, works	lb.	.08 -	—
Cyclohexanol, 99%-100%, dms., works.	lb.	.21 -	.22
Cyclohexanone, 97½% min., dms., c.l., works.	lb.	.30 -	.32
tech., dms., c.l., works.	lb.	.30 -	—
l.c.l., works	lb.	.30¼-	—
tanks, works	lb.	.29 -	—
Cyclopropane, USP, cyls. dlvd.,	gal.	.27 -	—

D

Damiana leaves, bls.	lb.	.35 -	.40
Dandelion root, bls.	lb.	.75 -	.80
DDT, fiber, dms., c.l., works.	lb.	.42½-	—
ton lots, works	lb.	.45 -	—
tins, smaller lots, works.	lb.	.48 -	.50
dlvd.	lb.	.35 -	—
Decanol, normal, tech., dms.,			
Deertongue, bls.	lb.	.35 -	.40
Defluorinated phosphate, paper bgs., works.	ton.	85.75 -	—
Degras, common, bbls.	lb.	.10 -	.12
neutral, less 2%, ffa., bbls.	lb.	.22 -	.24
over 2% ffa, bbls.	lb.	.21 -	.23
Derris root (see Cube root).			
Dextrin, British gum, bgs., c.l.	100 lbs.	5.75 -	—
l.c.l.	100 lbs.	5.90 -	—
Chicago, bgs., c.l.	100 lbs.	5.30 -	—
Corn, canary, bgs., c.l.	100 lbs.	5.49 -	—
l.c.l.	100 lbs.	5.64 -	—
Chicago, bgs., c.l.	100 lbs.	5.04 -	—
dark, bgs., c.l.	100 lbs.	5.59 -	—
l.c.l.	100 lbs.	5.74 -	—
Chicago, bgs., c.l.	100 lbs.	5.14 -	—
white, bgs., c.l.	100 lbs.	5.34 -	—
l.c.l.	100 lbs.	5.49 -	—
Chicago, bgs., c.l.	100 lbs.	4.89 -	—
Dextrin prices above are for paper bags; cotton bags quoted 20c. higher.			
Potato, dom., bgs., c.l.	lb.	.13½-	—
l.c.l.	lb.	.14 -	—
Diacetone (see Alcohol, diacetone).			
Diacetyl, flavor grades, bots.	lb.	5.20 -	5.55
laboratory grade, bots.	100 grams.	4.50 -	—
tech., bots., works.	lb.	3.00 -	—
Diamyl ether (see Amyl ether).			
Phthalate, dms., tanks.	lb.	No prices.	
Diamylamine, dms., c.l., works,	lb.	1.47 -	—
l.c.l., works	lb.	1.50 -	—
Dianisidine, dms.	lb.	1.38 -	—
Diatomaceous earth, dom., nat., bgs., c.l., Atlantic Coast.	lb.	.07 -	—
l.c.l., ex whse.	lb.	.10 -	.16
nat., bgs., c.l., Pacific coast,	ton.	22.00 -	25.00
l.c.l., ex whse.	ton.	45.00 -	—
purified, bgs., c.l., Atlantic coast.	ton.	55.00 -	59.00
l.c.l., ex whse.	ton.	85.00 -	90.00
imported, Algerian, bgs., c.l., Atlantic coast.	ton.	No prices.	
Mexican, white, bgs., c.l., Atlantic coast.	lb.	.03 -	—
l.c.l.	lb.	.06 -	—
Dibutyl phthalate, 5-gal. cns., frt. alld. E. of Rockies.	lb.	.33½-	—
1-gal. cns., same basis.	lb.	.35½-	—
dms., c.l., same basis.	lb.	.29½-	.30¼
l.c.l., same basis.	lb.	.30 -	.31
tanks, same basis.	lb.	.28 -	.29
Sebacate, dms., c.l., works.	lb.	No prices	
l.c.l., works	lb.	No prices	
tanks, works.	lb.	No prices	
Tartrate, dms., wks., frt. alld.	lb.	.92 -	1.02
Dibutylamine, dms., c.l., works,	lb.	.76 -	—
l.c.l., works	lb.	.79 -	—
Dichlorodiphenyltrichlorethane (see DDT).			
Dichloroethyl ether, purified, dms., c.l., works, frt. equald with So. Charleston.	lb.	.13½-	—
l.c.l., same basis.	lb.	.14 -	—
tanks, same basis.	lb.	.12¼-	—
Diethanolamine, dms., c.l., frt. alld. in E.	lb.	.23½-	—
l.c.l., same basis.	lb.	.24½-	—
tanks, same basis.	lb.	.22½-	—
Diethyl carbonate, dms., l.c.l.	lb.	.40 -	—
Oxalate, dms., c.l.	lb.	.33 -	—
l.c.l.	lb.	.33½-	—
tanks	lb.	.32 -	—
Phthalate, dms., c.l., dlvd.	lb.	.29¼-	—
dms., l.c.l., dlvd.	lb.	.30 -	—
tanks, dlvd.	lb.	.28 -	—
Sulphate, dms., c.l., works.	lb.	.14 -	—
l.c.l., works.	lb.	.15 -	—
tanks, works	lb.	.13 -	—
Diethylamine, dms., c.l., works,	lb.	.54 -	—
l.c.l., works	lb.	.56 -	—
tanks, works	lb.	.50 -	—
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R.	lb.	.75 -	—
Diethylanilin, dms.	lb.	.48 -	—
Diethyleneglycol, dms., c.l., frt. alld. in E.	lb.	.14 -	—
l.c.l., same basis.	lb.	.15 -	—
tanks, same basis.	lb.	.13 -	—
Monobutylether, dms., c.l., wks.	lb.	.22 -	—
l.c.l., works	lb.	.23 -	—
tanks, works	lb.	.21 -	—
Monoethylether, dms., c.l., wks.	lb.	.15½-	—
l.c.l., works	lb.	.16½-	—
tanks, works.	lb.	.14½-	—
Diethylstil bestrol, bots.	kilo.	270.00 -	280.00
Digitalin, cryst., bots.	gram.	29.00 -	30.00
powd., bots.	gram.	1.25 -	1.75
Digitalis leaves, dms.	lb.	1.05 -	1.15
Diglycol laurate, dms.	lb.	.31 -	.32
Oleate, light, bbls., c.l.	lb.	.17 -	—
Stearate, bbls., c.l.	lb.	.23 -	—
Dihydroxydichlorodiphenylmethane, dms., works of N.Y. met.	lb.	.95 -	1.00
smaller containers, same basis.	lb.	1.05 -	1.40
Di-isobutyl ketone, dms., works.	lb.	.19 -	—
Dillseed, decorticated, bgs.	lb.	.14 -	.14½
dewhiskered, bgs.	lb.	.11 -	.11½
Dimethyl phthalate, dms., c.l., dlvd.	lb.	.20 -	—
l.c.l., dlvd.	lb.	.20½-	—
tanks, dlvd.	lb.	.19 -	—
Dimethylamine, anhyd., cyl., frt. alld. E. of Miss., 100% basis.	lb.	.40 -	—
solution, dms., works, frt. alld. E. of Miss., 100% basis.	lb.	.37 -	.47½
tanks, same basis.	lb.	.36 -	—
Dimethylanilin, dms., c.l.	lb.	.20 -	—
l.c.l.	lb.	.22 -	—
Dinitrobenzene, bbls.	lb.	.16 -	—
Dinitrochlorobenzene, dms.	lb.	.14 -	—
Dinitronaphthalene, kgs.	lb.	.85 -	.88
Dinitrophenol, bbls.	lb.	.22 -	—
Dinitrotoluene, rfd., dms.	lb.	.18 -	—
oily, dms.	lb.	.05 -	—
Diorthotolylguanidin, dms., ten lots, dlvd.	lb.	.44 -	—
smaller lots, dlvd.	lb.	.46 -	.47

Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, destructive dist., dms., extra, wks., South, c.l..gal. .66 - —
tanks, wks., South.....gal. .60 - —
steam dst., dms.....gal. .80 - —
tanks, divd. E.....gal. .77 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, cns...lb. .50 - .61
dms.....lb. .48 - .56
Diphenylamine, bbls.....lb. .25 - —
Diphenylguanidin, dms., tons..lb. .35 - —
smaller lots.....lb. .36 - .37
Divi-divi, 35% tannin, c.l., U.S. ports, ex dock..ton.68.00 -69.00
Doggrass root, dom., cut, bls.lb. .30 - .35
imp., NF, cut, bls.....lb. .40 - .45
Dogwood, Jamaica, bark, bls..lb. .12 - .14
Dover's powder, USP, cns....lb. No stocks
Dragon's blood, drops, cs.....lb. .55 - .60
reeds, cs.....lb. No stocks

Dyes, coaltar (certified colors for foods, drugs and cosmetcs), 5-lb. lots)—

Blue, FD&C, No. 1, cns....lb.13.00 - —
Green, FD&C, No. 1, cns....lb.13.00 - —
No. 2, cns.....lb.17.00 - —
No. 3, cns.....lb.27.00 - —
Orange, FD&C, No. 1, cns..lb. 2.80 - —
No. 2, cns.....lb. 3.55 - —
Red, FD&C, No. 1, cns.....lb. 5.75 - —
No. 2, cns.....lb. 3.05 - —
No. 3, cns.....lb.17.00 - —
No. 4, cns.....lb. 5.50 - —
No. 32, cns.....lb. 4.05 - —
Yellow, FD&C, No. 1, cns..lb. 3.00 - —
No. 3, cns.....lb. 2.55 - —
No. 4, cns.....lb. 2.55 - —
No. 5, cns.....lb. 3.05 - —
No. 6, cns.....lb. 3.05 - —

Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots—

Black, D&C, No. 1, cns.....lb. 3.35 - —
Blue, D&C, No. 4, cns.....lb.12.35 - —
Brown, D&C, No. 1, cns.....lb.12.35 - —
Green, D&C, No. 5, cns.....lb.12.35 - —
No. 6, cns.....lb.12.35 - —
Orange, D&C, No. 5, cns....lb. 3.35 - —
No. 4, cns.....lb.15.35 - —
No. 10, cns.....lb.15.35 - —
Red, D&C, No. 8, cns.....lb. 2.85 - —
No. 17, cns.....lb. 3.35 - —
No. 18, cns.....lb.15.35 - —
Yellow, D&C, No. 7, cns....lb. 6.35 - —
No. 8, cns.....lb. 3.35 - —
No. 11, cns.....lb.10.35 - —
No. 19, cns.....lb.15.35 - —
No. 22, cns.....lb. 3.35 - —
No. 33, cns.....lb.15.35 - —
No. 37, cns.....lb.12.35 - —

Dyes, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots—

Blue, Ext. D&C, No. 1, cns..lb.12.35 - —
Green, Ext., D&C, No. 1, cns. lb.12.35 - —
Red, Ext. D&C, No. 1, cns..lb.10.35 - —
No. 3, cns.....lb.21.65 - —
No. 8, cns.....lb. 7.85 - —
No. 10, cns.....lb.12.35 - —
No. 13, cns.....lb.12.35 - —
Yellow, Ext. D&C, No. 1, cns., lb. 3.35 - —

Dyes, coaltar, for general uses (number are those of Colour Index scale)—

86 Chrome yellow, 2G...lb. .65 - .70
40 Chrome yellow R.....lb. .50 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste..lb. .85 - .90
189 Lake red R, powd....lb. 3.00 - 3.10
202 Chrome blue black U.lb. .35 - .42
204 Chrome black A.....lb. .42 - .45
208 Fast red bllue R.....lb. .75 - 2.00
214 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80
289 Fast cyanin 5R.....lb. .90 - 1.00
299 Chrome black F.....lb. .85 - .88
304 Paper yellow.....lb. .88 - .90
307 Fast cyanin black B.lb. .80 - .85
326 Direct fast scarlet...lb. 2.00 - 2.25
365 Chyrophenin G.....lb. .68 - .70
382 Direct scarlet B.....lb. 1.15 - 1.20
387 Direct violet B.....lb. 1.00 - 1.30
394 Direct violet N.....lb. .80 - .95
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .66 - .70
415 Direct orange B.....lb. .60 - .70
419 Direct fast red F....lb. .70 - .73
420 Direct brown M.....lb. .55 - .57
448 Benzo purpurin 4B...lb. .65 - .68
465 Benzo purpurin 10B..lb. .40 - .50
502 Direct azorin G.....lb. .75 - .80
512 Direct blue RD.....lb. .60 - 1.00
518 Direct pure blue 6B..lb. 1.20 - 1.30
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast black FF.lb. .55 - 1.00
581 Direct black EW.....lb. .50 - .54
582 Direct black RX.....lb. .35 - .45
592 Direct green B.....lb. .50 - .55
594 Direct green G.....lb. .50 - .55
596 Direct brown 3GO...lb. .85 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
688 Acid violet.....lb. 1.00 - 3.00
812 Primulin .....lb. .70 - .73
814 Direct fast yellow....lb. 2.00 - 2.25
945 Nigrosin (water soluble). lb. .35 - .50
1177 Indigo, 20%, paste....lb. .15 - .18
Benzo fast black L.lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .45 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon....lb. .40 - —
Sulphur tan.....lb. .30 - .50
Sulphur olive.....lb. .25 - .54
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .90

Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—
865 Nigrosin derivatives..lb. .36 - .44
Blue—
7075 Alizarin astral base..lb.15.00 - —
1073 Alizarin cyanin, green base..lb. 6.00 - —
Brown—
Brown, oil soluble.....lb. 1.15 - —
Green—
1078 Alizarin cyanin green base..lb. 5.00 - —
Orange—
24 Sudan I.....lb. .75 - —
Red shade.....lb. .75 - —
Red—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .85 - —
690 Oil violet.....lb. .60 - —
749 Rhodamine B (oil pink). lb. 2.50 - —
1060 Anthraquinone, violet base..lb. 6.00 - —
Yellow—
16 Amidoazobenzene yellow. lb. .90 - —
17 Amidoazotoluene yellow. lb. .75 - —
61 Yellow OB.....lb. 1.40 - 2.00

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—
246 Naphthol blue black S.. lb. .50 - —
729 Victoria blue B.....lb. 1.85 - —
861 Indulin .....lb. .87 - —
878 Methylene gray.....lb. 1.50 - —
909 New blue F.....lb. 1.20 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B..lb. 1.90 - —
1130 Indigotin IA.....lb. .85 - —
Blue—
714 Patent blue A.....lb. 1.05 - 1.10
Brown—
251 Bismarck brown G....lb. .47 - .62
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R. lb. .65 - —
632 Bismarck brown R...lb. .47 - .62
798 Phosphin .....lb. 4.65 - —
Green—
5 Naphthol green B....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B....lb. 1.55 - —
1078 Alizarin cryanin green.. lb. 2.00 - —
Orange—
10 Chrysodin G.....lb. .44 - —
21 Chrysodin R.....lb. .41 - —
27 Orange G.....lb. .50 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B. lb. .68 - —
151 Orange Y.....lb. .31 - .32
161 Orange R.....lb. .34 - —

Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Red—
79 Ponceau R.....lb. .43 - —
88 Fast red B.....lb. 1.65 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .60 - —
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crocein M...lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6B.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —
Violet—
680 Methyl violet B.....lb. .70 - .75
681 Crystal violet B.....lb. 1.75 - —
696 Acid violet 4BN.....lb. .88 - —
Yellow—
10 Naphthol yellow S....lb. .83 - —
138 Metanil yellow.....lb. .56 - .58
636 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow...lb. 1.15 - —
640 Tartarsin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Black—
364 Nigrosin .....lb. .36 - .44
Blue—
860 Indulin .....lb. .60 - .70
Brown—
331 Bismarck brown.....lb. 1.50 - —
Green—
637 Malachite, green base.. lb. 2.00 - —
Orange—
20 Chrysoidin G.....lb. .95 - —

Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).

Red—
677 Fuchsin, magenta, base, lb. 7.25 - —
749 Rhodamine R.....lb. 4.75 - —
Yellow—
67 Amidoazotoluene yellow. lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS...lb. 2.00 - —
Violet—
680 Methyl violet base...lb. .85 - —
Dyes, natural (see name of article).

E

Echinacea root, bls.....lb. .70 - .75
Egg, albumen (see Albumen).
Yolk, dried, dom., bbls.....lb. 1.16 - 1.25
imported .....lb. No stocks
Elder flowers, bright, bls.....lb. .75 - .80
Elecampane root, bls.....lb. .45 - .50
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .55 - .56
select, bndls.....lb. .55 - .56
Emetine hydrochloride, bots...oz.53.50 -54.00
Ephedra, bls.....lb. .28 - .30
Ephedrine, synthetic, USP anhydrous, bots, 100-oz. lots..oz. .84 - —
hydrous, bots., 100-oz. lots, oz. .78 - —
Hydrochloride, tin..100 ozs.oz. .60 - —
Sulphate, cryst., tins, 100 ozs. oz. .57 - —
powd., tins 100-oz. lots..oz. .58 - —
Epinephrine, synth., USP, bots.. gram. .70 - .95

RCI

NEW ZENITH GREENS

WIN INDUSTRY'S PRAISE

FOR QUALITY AND PERFORMANCE

As predicted, RCI's new Zenith Greens are not only solving the shortage of lead chrome greens—they are winning a great reputation as an important advancement in chemical colors. Formulators are finding them equal to lead chrome greens in soft texture, permanence and hiding qualities, light permanence and cleanness. The quality is right, the price is right and unlimited quantities are available for immediate shipment in the following shades:

No. 3900 C.P. Zenith Green Extra Light • No. 3905 C.P. Zenith Green Light • No. 3910 C.P. Zenith Green Medium • No. 3920 C.P. Zenith Green Dark • No. 3930 C.P. Zenith Green Extra Dark

For further facts write direct to the Sales Department at 105 Bedford Avenue, Brooklyn 11, New York.

CHEMICAL COLOR DIVISION

REICHHOLD CHEMICALS, INC.

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CHEMICAL COLORS • SYNTHETIC RESINS • PHENOLIC PLASTICS • INDUSTRIAL CHEMICALS

Epsom salt, tech., cryst., bgs., c.l...100 lbs. 2.05 - —
l.c.l. .....100 lbs. 2.40 - 2.65
USP, cryst., bgs., c.l..100 lbs. 2.25 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.50 - —
smaller lots.....100 lbs. 2.75 - —
bbls., c.l.....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots.....100 lbs. 2.85 - —
kgs., c.l.....100 lbs. 2.60 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.85 - —
smaller lots.....100 lbs. 3.10 - —

Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Houston, New Orleans, New York.

Ergot, USP, cns.....lb. 1.55 - 1.60
Eserine, bots.....oz. No prices
Sulphate, bots.....oz.65.00 - —
Ether, acetic (see Ethyl acetate).
Amyl (see Amyl ether).
Butyl, l.c.l., dms., dlvd.....lb. .30 - —
Ethyl (see Ether, sulphuric).
Nitrous, cons., bots., 100 lbs..lb. .98 - 1.10
Sulphuric, cons., dms.....lb. .11 - .16
USP anesthesia, hospital, 1-lb. cns..lb. .74 - .75
Synthetic, dms., c.l., frt. alld. lb. .17 - —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .15 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld..lb. .20 - —
l.c.l., frt. alld.....lb. .20½- —
tanks, frt. alld.....lb. .19 - —
85-98%, dms., c.l., frt. alld. lb. .21 - —
l.c.l., frt. alld.....lb. .21½- —
tanks, frt. alld.....lb. .19½- —
99%, dms., c.l., frt. alld.lb. .21 - .21¼
l.c.l., frt. alld.....lb. .21½- .21¾
tanks, frt. alld.....lb. .19½- .19¾

Ethyl acetate, natural, USP, dms. lb. .21¾- —
synthetic, 85-90%, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11 - —
tanks, frt. alld.....lb. .09½- —
95-98%, dms., c.l., frt. alld. lb. .11 - —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .10 - —
Acetoacetate, dms., c.l., works. lb. .50 - —
l.c.l., frt. alld.....lb. .50½- —
Benzoate, bots.....lb. .50 - .52
B-ethoxy propionate, dms., works..lb. .70 - —
Bromide, tech., 98%+, dms..lb. .36 - .40
Carbamate, dms., dlvd. E...lb. .58 - —
Chloride, tech., tanks.....lb. .13½- —
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns.....lb. 3.65 - 3.85
Formate, dms., Agnue, Calif.lb. .26 - .32
Iodide, bots.....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .38½- —
Myristate, dms., works.....lb. No prices
Oenanthate, dms.....lb. 1.10 - 1.15
Oleate, dms., l.c.l., works..lb. .47 - —
Oxalate, dms., frt. alld.....lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works..lb. .50 - —
Ethylcellulose, pkgs., 5,000 lbs., or more, works..lb. .50 - —
smaller lots, works.....lb. .52 - .60
Ethyldiethanolamine, dms., l.c.l., works..lb. .80 - —
Ethylene, dichloride, dms., c.l., works, frt. alld. E. of Rockies..lb. .08 - —
West of Rockies.....lb. .08½- —
l.c.l., works, frt. alld. E. of Rockies..lb. .09 - —
West of Rockies.....lb. .09½- —
tanks, frt. alld. E. of Rockies, lb. .07 - —
West of Rockies.....lb. .07½- —
Trichloride (see Trichloroethane).

Ethyleneglycol, dms., c.l., frt. alld, in E..lb. .10 - —
l.c.l., same basis.....lb. .11 - —
tanks, same basis.....lb. .09 - —
Monobutylether, dms., c.l., wks. lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works .....lb. .16½- —
Monoethylether, dms., c.l., works..lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14½- —
Monoethylether, acetate, dms., c.l., works..lb. .18½- —
l.c.l., works .....lb. .14½- —
tanks, works .....lb. .12½- —
Monomethylether, dms., c.l., works..lb. .16½- —
l.c.l., works .....lb. .17½- —
tanks, works .....lb. .15½- —
Ethylethanolamine, dms., c.l., works..lb. .57 - —
l.c.l., works .....lb. .60 - —
Ehtylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots..oz.10.50 -10.75
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots .....lb. 6.80 - 6.90
Eucalyptol, cns., dms.....lb. 2.85 - 3.25
Eucalyptus leaves, bls.....lb. .14 - .15
Eugenol, prime, USP XII....lb 2.60 - 3.50
Euphorbia, bls. .....lb. .20 - .22

F

Feldspar, enamel, 100 mesh..ton.17.00 -20.50
bulk, c.l. .....ton.14.00 -17.50
glass, 20 mesh, bgs., works, min. 2 tons..ton.12.75 -16.25
bulk, c.l. .....ton. 9.75 -12.25
pottery, bgs., l.c.l., works, min. 2 tons..ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00

Fennel seed, Argentine, bgs., fixtures..lb. .13 - .13½
Indian, bgs., afloat.....lb. .26 - .26½
Fenugreek, domestic, bgs.....lb. No stocks
Indian, bgs. .....lb. .11½ Nom.
Morocco, bgs. .....lb. .11½ Nom.
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works.lb. .13½- .15
water-white, cs., works.....lb. .14½- .17
Fir balsam, Canada, cns....gal.22.00 -22.50
Oregon, bbls.....gal. 2.65 - 2.70
Fishberries, bgs. .....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., E. works..ton.135.00 - —
65% protein, bgs., E. works. ton.135.00 - —
Fishscrap, dried, 60% protein, bulk, East coast..ton.125.00 -130.00
Flake white, bbls.....lb. .09 - —
kegs .....lb. .11 - —
Fleaseed, black, bgs.....lb. .55 - .60
Blonde, bgs.....lb. .31 - .33
Fluorspar, No. 1, ground, 95-98% CaF_2 bulk, c.l., mines, net ton.37.00 - —
washed, gravel, 70% or more CaF_2, c.l., bulk, mines. ton.33.00 - —
65%, c.l., bulk, mines....ton.32.00 - —
60%, c.l., bulk, mines....ton.31.00 - —
less than 60%, c.l., bulk, mines..ton.30.00 - —
Formaldehyde, bbls., c.l., works. lb. .0595- —
l.c.l., works.....lb. .0645- —
dms., extra, c.l., works.....lb. .0495- .0580
l.c.l., works.....lb. .0545- .0630
tanks, works.....lb. .0320- .0420
tanktrucks, dlvd., N.Y.C....lb. .0345- —
Fringetree bark, bls.....lb. .75 - .76
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton. 8.50 -15.00
Tex. mines.....ton.12.50 - —
spent, bulk, Bayonne...ton. 3.00 - —
imp., bgs., c.l.....ton.30.00 -40.00
Furfural, ref., dms., c.l., works. lb. .15½- —
cns., dms., l.c.l., works....lb. .18½- .25½
tech., dms., c.l., works....lb. .13 - —
l.c.l., cns., dms.....lb. .15½- .20½
tanks, works ....lb. .09½- —
Fusel oil, dms., c.l.....lb. .26 - —
l.c.l. .....lb. .26½- —
tanks .....lb. .25 - —
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .38 - —
No. 1A, bbls., l.c.l.....lb. .37 - —
No. 2, bbls., l.c.l.....lb. .36 - —
No. 3, bbls., l.c.l.....lb. .34 - —
liquid, No. 0, bbls., l.c.l...lb. .20½- —
No. 1, bbls., l.c.l.....lb. .19 - —
No. 2, bbls., l.c.l. .....lb. .18 - —
No. 3, bbls., l.c.l. .....lb. .15½- —
solid, No. 1, bxs., l.c.l.....lb. .22½- —

G

G salt, bbls.....lb. .50 - —
Galangal root, bls.....lb. .26 - .28
Gambier, cube, Singapore, cs..lb. No stocks.
Extract, bbls. .....lb. No stocks.
Gammapicoline, 95%, dms., c.l., works..lb. 1.35 - —
Gasoline, at refinery, ex tax Arkansas, 73-75 octane, tanks. gal. .07125- —
Bayonne, 74 octane, tanks. gal. .0780- .09
Gulf Coast, 73-75 octane, tanks..gal. .0625- .07¼
Group 3, 73-75 octane, tanks. gal. .06¾- .07
Pennsylvania, western, U. S. motor, 74 octane, leaded, tanks..gal. .07¾- .09
natural, 26/70 octane, Group 3, tanks..gal. .05 -.05125
Gelatin, silver label, ctns., divd. lb. .90 Nom.
export, cs. .....lb. 1.00 Nom.
Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.
Gelsemium root, bls.....lb. .35 - .40
Gentian root, bls. .....lb. .29 - .30
grd., bbls., bxs.....lb. .35 - .36
powd., bbls., bxs.....lb. .34 - .35
Geraniol, 92-96%, cns., dms....lb. 9.00 -12.00
Geranyl acetate, cns.....lb. 5.02 -12.50
Ginger, African, No. 1, bls....lb. .14¼- .14¾
Calicut, Romeo-type, bgs...lb. .16 - .16½
Cochin, bleached, bgs.....lb. .16¾- .17
unbleached, bgs. .....lb. .15¾- .15¾
Jamaica, No. 1, bgs.....lb. .18 - .18½
No. 2, bgs. .....lb. .17 - .17½
No. 3, bgs.....lb. .15¾- .15¾
Rhattoon, bgs. .....lb. .14 - .14½
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works....100 lbs. 1.25 - 1.75
l.c.l., bgs., works..100 lbs. 1.65 - 2.10
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest. lb. .21 - —
30/56, bgs., c.l., same basis..lb. .21 - —
58/82, bgs., c.l., same basis..lb. .17 - .22½
82/108, bgs., c.l., same basis..lb. .18½- .22½
Bone glue, l.c.l. prices 1c. higher than c.l.
Hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .14 - .21½
122-149, bgs., c.l., dlvd....lb. .15 - .22½
150-177, bgs., c.l., dlvd....lb. .16 - .23½
178-206, bgs., c.l., dlvd....lb. .17 - .24½
207-236, bgs., c.l., dlvd.....lb. .18 - .25½
237-266, bgs., c.l., dlvd.....lb. .19 - .26½
267-298, bgs., c.l., dlvd.....lb. .20 - .27½
299-330, bgs., c.l., dlvd.....lb. .21 - .28½
331-362, bgs., c.l., dlvd.....lb. .22 - .29½
363-394, bgs., c.l., dlvd.....lb. .23 - .30½
395-427, bgs., c.l., dlvd.....lb. .24 - .31½
428-460, bgs., c.l., dlvd.....lb. .25 - .32½
461-494, bgs., c.l., dlvd.....lb. .26 - .33½
495-529, bgs., c.l., dlvd.....lb. .27 - .34½
Hide glue l.c.l., prices 1c. higher than c.l. bbls., ½c. over bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks..lb. .45 - .60
soaplye, 80%, tanks.....lb. .35 - .50
dynamite, dms., c.l.....lb. .55¼- .75¼
l.c.l. .....lb. .55¾- .75¾
tanks .....lb. .55 - .75
high gravity, dms., c.l.....lb. .55¼- .75¼
l.c.l. .....lb. .55¾- .75¾
tanks .....lb. .55 - .75
refined, B.P., 98%, dms., c.l..lb. .55¾- .75¾
tanks .....lb. .55½- .75½
USP, 95%, dms., c.l.....lb. .55¼- .75¼
l.c.l. .....lb. .55¾- .75¾
tanks .....lb. .55 - .75
yellow, distilled, dms., c.l...lb. .55 - .75
tanks .....lb. .55 - .75
Glycine, USP (see Acid, ammocetic).
Glycol, boriborate, dms.....lb. .22 - —
Stearate, dms .....lb. .26 - —
Gold chloride, acid-brown, bots. oz.20.00 -20.50
acid-yellow, bots.....oz.18.75 -19.00

KAMEN SOAP PRODUCTS CO., INC.

General Offices: 233 BROADWAY, NEW YORK, N. Y. *Factory:* 7 FAIRVIEW AVE., BARBERTON, OHIO

Presenting

KAMCO

NEW SYNTHETIC DETERGENTS

For

HARD AND SOFT WATER

IN BEAD FORM (SPRAY DRIED)

Kamco Synthetic Detergents, by themselves or in compounding, are products which are easily and economically adaptable to many possible industrial and household uses as suggested below:

Industrial Cleaners and Laundry Compounds
Household Cleaners, Dish and Bottle Washer
Wool Washing Compound, Textile Detergent, Rug Shampoos
Automobile Washers, and Metal Cleaner
Wall, Floor, and Ceiling Cleaners
Dairy Cleaner, Food Utensil and Machinery Cleaner
Wetting and Emulsifying Agent for Insecticides

Write for Suggested Formulations and Samples

EXCLUSIVE SELLING AGENTS
FOR KAMCO DETERGENTS

MILLMASTER CHEMICAL CO.

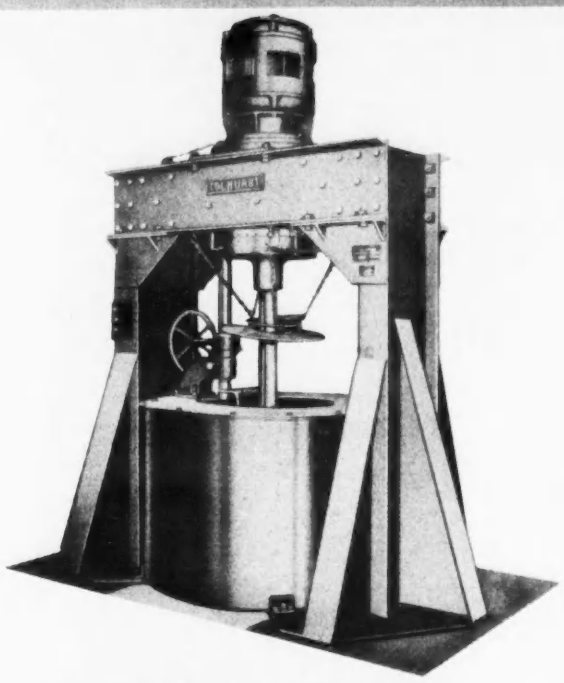
551 FIFTH AVENUE, NEW YORK

CABLE ADDRESS: MILLMASTER

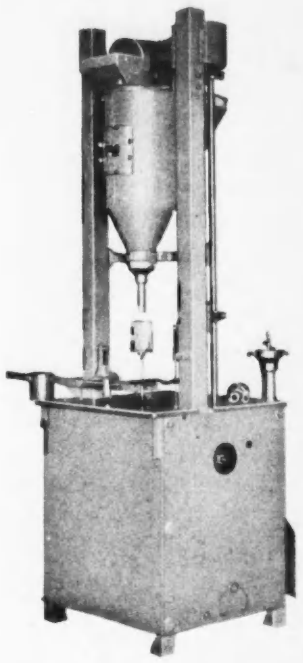
"FIRST" IS THE WORD FOR MACHINERY

FMC FMC

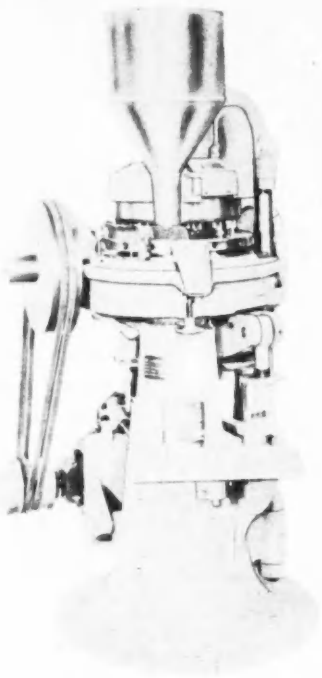
COMMINUTING MACHINES



CENTRIFUGAL EXTRACTORS



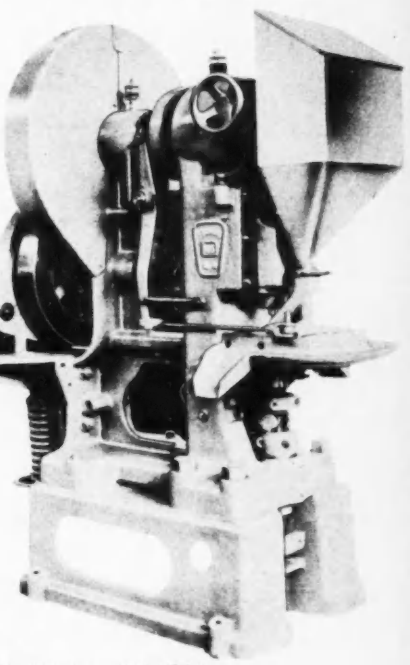
DRY POWDER FILLERS



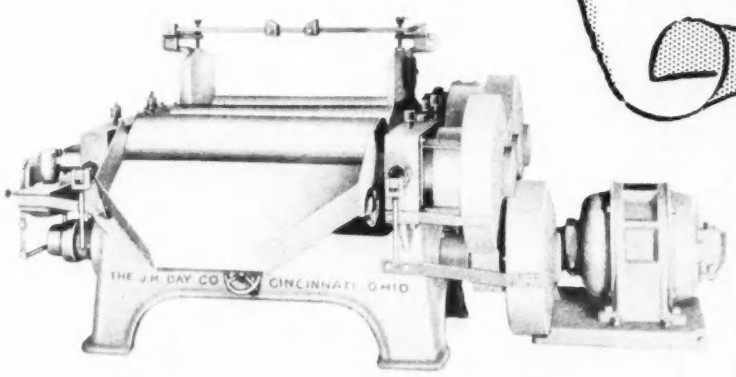
ROTARY TABLET MACHINES

from A to Ω

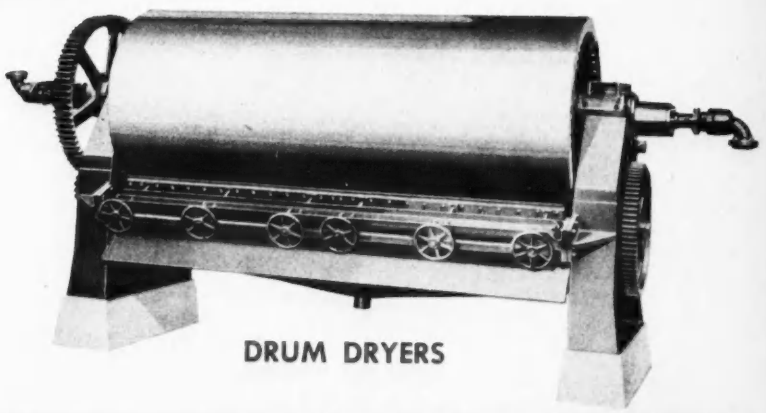
from
ALPHA to OMEGA
YES, FROM START TO FINISH, NOW YOU CAN BUY PRACTICALLY ALL THE EQUIPMENT YOU NEED TO FURNISH AN ENTIRE PLANT FROM ONE SOURCE:
"FIRST"



SINGLE PUNCH TABLET MACHINES



THREE ROLL MILLS



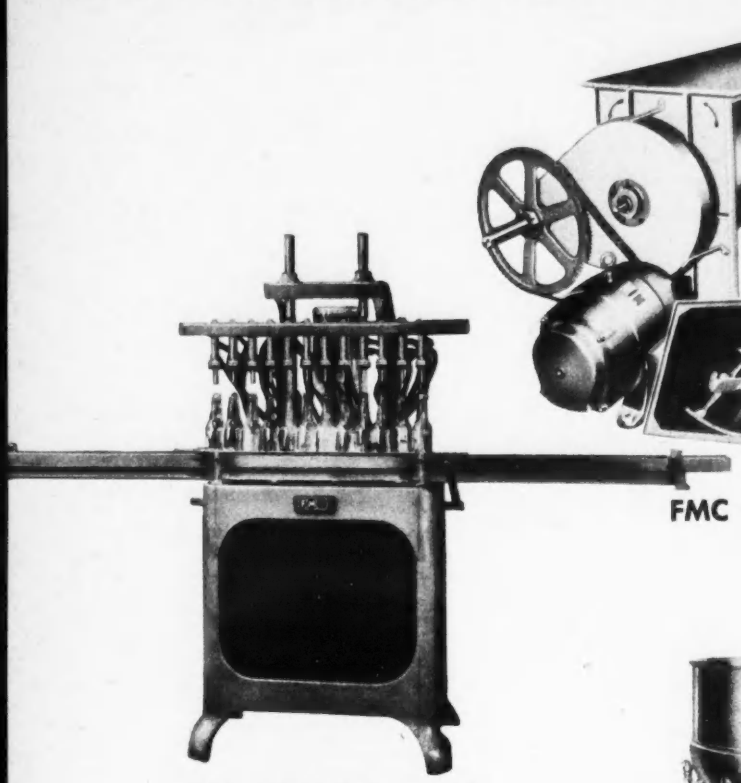
DRUM DRYERS

FIRST MACHINERY CORP.

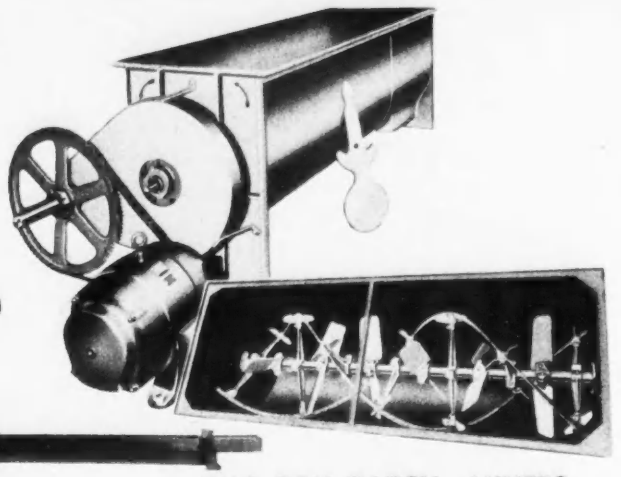
157 HUDSON STREET NEW YORK 13, N. Y.

"FIRST" IS THE WORD FOR MACHINERY

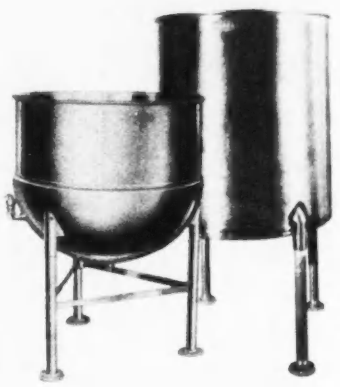
FMC FMC



FMC STRAIGHT LINE VACUUM FILLERS



FMC DRY BATCH MIXERS



FMC STAINLESS STEEL KETTLES AND TANKS

FMC ROTARY SYPHON FILLERS

A PARTIAL LIST OF FMC OFFERINGS

OUTSTANDING OFFERINGS
- 1 32" Monel basket suspended type extractor with 7½ HP 3/60/220-440, 900 RPM motor with bottom unloader.
- 2 Tolhurst 40" suspended type centrifugal extractor, steel basket; one with 10 HP motor; one with 7½ HP motor.
- 1 Sharples centrifuge, No. 6, with 3 HP, explosion-proof motor.
- 1 RB expeller with 20 HP motor.

AUTOCLAVES
- 1 Impregnator, fumigator or pressure tunnel, 7' x 7' x 50' with rails, vacuum pump and accessories.
- 1 Vertical, 4' x 7'6", forge welded steel, 900 lbs. pressure.
- 1 Vertical, 42" x 24'4", forge welded steel, 600 lbs. pressure.
- 1 42" x 48", jacketed, 150 lbs. internal, 500 lbs. pressure with agitator.
- 2 Jacketed autoclaves, 3' x 12', ⅜" shell, 100 psi.

COLLOID MILLS
- 2 Charlotte, No. 3, stainless and monel, 3 HP motors.
- 2 Eppenbach, stainless, model "B", vertical, 1½ HP, AC motor.
- 2 New, stainless Chemi-Colloid, 30 HP and 50 HP motors.
- 1 Eppenbach, stainless, model "C", vertical, 5 HP, 3 phase motor.
- 1 Premier, type "C", 5" rotor-stator, 3 HP motor.
- 1 Union Viscolizer, brass, No. 450 with 10 HP, AC motor.
- 2 U.S. horizontal, each two motors, 3 HP and 15 HP.
- 1 Manton-Gaulin, 600 GPH homogenizer.

CONDENSERS
- 1 Tubular condenser, copper, 4' x 22', having 288—1" tubes, 1440 sq. ft.
- 5 Aluminum condensers, tubular type, 24" x 60".
- 2 Bethlehem tubular condensers, 8463 sq. ft., 6' x 15', having 4500 tubes, ⅝" OD.
- 1 Devine tubular vacuum, cast iron, surface condenser, 8" x 57" with receiver, 18" x 28".
- 4 Schutte-Koerting, multi-jet, barometric condensers, varying capacities.
- 1 Stokes tubular vacuum cast iron surface condenser, 12" x 5' with 60 gallon receiver.

STILLS
- 4 Distillation or fractionating columns, copper or steel, 18" to 62" diameter.

DRYERS
- 1 Apron type single pass conveyor dryer, 18" x 23', motorized.
- 2 Double drum dryers, Black and Clawson, 30" x 60" with accessories.
- 1 Buffalo double drum, 30" x 90", complete with accessories.
- 1 Devine vacuum shelf dryer, 60" x 160", double door, 20 shelves.
- 1 Devine vacuum shelf dryer, 42" x 42", with 20 shelves.
- 1 Christie dryer, 70" x 40' long.
- 1 Fulton engineering rotary dryer, 3' x 24".
- 1 Proctor and Schwartz, steam heated, tray dryer, capacity —80 trays, 10" x 15" complete with accessories.
- 1 Huhn rotary steam dryer, 3' x 13', continuous operation.
- 7 Rotary dryers, from 3' x 30' to 6' x 64'.
- 3 Single drum dryers, or flakers, 4' x 9', 4' x 12', and 3' x 6' with accessories.
- 1 Devine rotary vacuum dryer, 5' x 33', with 35 HP motor and accessories.

EVAPORATORS
- 1 Blaw Knox triple effect evaporator, horizontal type, 6' x 9', all steel.
- 3 Buffalo triple effect evaporators, 600 to 1200 sq. ft.
- 1 10' copper vacuum pan, calandria type.
- 1 Swenson single effect cast aluminum.
- 1 Zaremba cast iron single effect, 10' diameter x 12' high, 200 gallon holding capacity, copper tubes, complete with vacuum pump and condenser.

EXTRUDERS
- 2 Allen 6" and 10" extruder-strainers.

FILLERS
- 1 Kiefer, piston type Visco filler.
- 3 M & S, 6 piston fillers.
- 3 Haler rotary for juices, 7, 14, and 18 spout.
- 1 Filler Machine Co. filler, stainless, 3 piston.
  Buffalo and Vol-U-Meter can fillers.
  Fowler stainless, bleach filler.
  FMC straight line and rotary syphon fillers.

FILLERS FOR DRY POWDERS
Stokes, Stokes and Smith, National Packaging, Triangle, Edtbauer, J. H. Day, Howes, Sprout-Waldron, etc.

FILTER PRESSES
- 4 Cast iron, 30", recessed presses.
- 1 Filter press, cast iron, plate and frame, 60" x 48", having 40 plates and frames, open delivery.
- 1 Shriver, 12" square plate and frame, 8 chamber, aluminum, 2 eye corner feed, closed delivery.
- 15 Sperry, 32", recessed presses.
- 2 Johnson, cast iron filter presses, 24"; one open delivery, one closed.

KETTLES
- 1 Full jacketed, 4' x 3', agitated, 200 gallon.
- 1 Lehigh, cast iron, coil heated, 2400 gallons, 6'9" x 9', with agitator.
- 2 Steel jacketed and agitated, 600 gallon.
  Copper, steel, stainless, jacketed; some agitated.
  New stainless kettles, all sizes; prompt shipment.

LABELERS
- 4 Burt, Standard-Kapp or Kyler all around labelers for cans, glass, etc.
- 1 Duplex New Jersey Labelrite.
- 2 Straight line fully automatic labelers; Pneumatic and Weeks-MacDonald.
- 8 World and Ermold semi-automatic labelers for spot labeling.

MILLS
- 6 Mikro pulverizers, Bantams, No. 1 and No. 2.
- 25 Fitzpatrick, stainless, model "D" comminuting machines.
- 8 Raymond mills, Nos. "00", "0000", 45, 1, others.
- 2 Jay Bee, No. 12 mills.
- 1 Lehman, 5 roll finisher or roller mill, 18" x 48".
- 2 Fuller mills, No. 33, 600 HP motor.
- 6 Stedman, Gruendler, Williams hammermills.
- 12 Ointment, drugs, paste and color mills; Day, Hance, Ross, Waterville, etc.
- 5 Allis Chalmers and Stearns Rogers tube mills, 5' x 22'.
- 2 Rod mills, 5' x 10', 6' x 14'.
- 4 Hardinge mills, 2' x 4'6", 3' x 3'6", 5' x22", others.
- 1 Porter jacketed mill, 5' x 5'.
- 1 Patterson, 5' x 5', lined pebble mill.
- 3 Jar mills, single jar, 16½ x 20; multiple, 3 (2 gallons).
- 1 Abbe jar mill, 2½ gallon capacity, 12½" x 13"; arranged for belt drive.

MIXERS
Prompt shipment all sizes ribbon type, horizontal, all steel mixers.
- 1 Simpson intensive mixer, 18" diameter, with double miller.
- 1 Day 30 gallon, stainless, Imperial mixer.
- 1 Day, 20 gallon, Cincinnatus vacuum mixer, B.D.
- 2 Patterson horizontal double ribbon, 30" x 40" x 84".
- 2 Heavy duty, jacketed, 9 gallon, double arm, double gear.
- 3 W & P, 100 gallon, double arm, jacketed.

PACKAGING EQUIPMENT
- 1 Complete packaging set-up consisting of:
  Pneumatic-Scale bottom sealer,
  Stokes & Smith auger filler,
  Pneumatic top sealer for cartons ranging from 3" x 4" x 1¼" to 6" x 9" x 2½".
  Hoepner automatic, scale weigher, filler, bagger and stitcher for 5 and 10 lb. free flowing materials.
  Fillers for liquids, paste, powders.
  Envelope and bag sealers.
  Wrappers, cartoners, conveying lines.

PRESSES
- 2 Dunning & Boschert, 1200 ton, curb presses, 28" ram, 28" stroke, steam platen.
- 3 Elmes hydraulic presses; 10" x 14", with pump and accumulator.
  Elmes compression molding presses; 35 ton to 200 ton, 22 x 30 to 30 x 73.
- 1 Farrel, 130 ton, heated platen, 20" x 20" and 1—150 ton, 26" x 26".
- 2 Hardinge hydraulic presses, 24" x 28" platens, 14" ram, 9" stroke.
- 1 Renneburg, 5 ton screw press and dryer, 50 HP motor.
- 2 Southwark hydraulic presses, 80 ton, 20 x 20 and 100 ton, 36 x 36, with heated platen and accumulator.
- 1 Stokes, 200 ton, semi-automatic compression molding press.
- 1 Thropp, 6 platen, 3' x 3', hydraulic, 12" ram.
  Other presses; 400 to 5000 ton Bethlehem, H.P.M., Southwark, Birdsboro, and other standard makes.

PUMPS
All types of pumps; for prompt shipment, state requirements.

SIFTERS
- 2 Rotex No. 23 Sifters, 20" x 81".
- 3 Tyler Hummer sifters, 3' x 6'; 4' x 5'.
- 2 Combs gyratory sifters, 21" and 25".
- 2 Robinson, No. 31 gyro-sifters, 20" x 69", 3 deck pulley drive.
- 1 Wolfe, 20" x 40" sifter 6 separations, 5 HP motor.
- 2 J. H. Day, Ro-Ball sifter, 20" x 48", single deck.
- 1 Schutz-O'Neill, 3' x 6', single deck sifter, arranged for pulley drive.

TABLET MACHINES
- 35 Stokes and Colton tableting presses, single punch and rotary presses.

FIRST MACHINERY CORP.

157 HUDSON STREET NEW YORK 13, N. Y.

Gold-soda chloride, photo., bots. oz.	13.00	-13.50
USP IX, bots. oz.	14.00	-14.50
Goldenseal roots, bls. lb.	8.50	- 8.75
powd., bxs. lb.	9.00	- 9.25
Gold of pleasure seed, bgs. lb.	No stocks	
Grains of paradise, bgs. lb.	.48	- .49
Graphite, dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse. lb.	.04½-	—
70-75%, bgs., same basis, lb.	.05 -	—
75-80%, same basis. lb.	.05½-	—
80-85%, bgs., same basis, lb.	.06 -	—
85-90%, bgs., same basis, lb.	.07 -	—
90% and up, same basis, lb.	.08 -	—
Imported, amorphous, powd., dlvd. lb.	.04 -	.05
crystalline, 88-90%, powd., same basis. lb.	.14 -	.16
90-92%, powd., same basis.. lb.	.16 -	.19
97% powd., same basis. lb.	.22 -	.25
flake, No. 1, 90-95%, 200-lb. crtns, same basis. lb.	.21 -	.22
No. 2, same basis. lb.	.22 -	.24
Grease, choice, loose. lb.	.23 -	—
house, loose. lb.	.21¾-	—
yellow, loose. lb.	.22 -	—
white, loose. lb.	.22¼-	—
Wool (see Adeps lanae and Degras).		
Green, brilliant, thioflavin toner, molybdic, kegs, works. lb.	3.25 -	—
tungstic, kgs., works. lb.	3.75 -	—
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis.. lb.	.29 -	—
6-10%, bbls., same basis, lb.	.30 -	—
11-15%, bbls., same basis, lb.	.31 -	—
16-20%, bbls., same basis, lb.	.31½-	—
21-25%, bbls., same basis, lb.	.32¼-	—
26-30%, bbls., same basis, lb.	.32¾-	—
31-35%, bbls., same basis, lb.	.33½-	—
36-40%, bbls., same basis.. lb.	.35½-	—
41-45%, bbls., same basis, lb.	.37 -	—
46-50%, bbls., same basis, lb.	.38¾-	—
50% and over, bbls., same basis.. lb.	.39¾-	—
reduced color, 5%, bbls. same basis. lb.	.10 -	—
6-10%, bbls., same basis. lb.	.10¾-	—
11-13%, bbls., same basis. lb.	.11¼-	—
14-16%, bbls., same basis. lb.	.12 -	—
17-19%, bbls., same basis. lb.	.12¼-	—
20-21%, bbls., same basis. lb.	.12½-	—
22-23%, bbls., same basis. lb.	.12¾-	—
24-25%, bbls., same basis. lb.	.13 -	—
26-27%, bbls., same basis. lb.	.13½-	—
28-29%, bbls., same basis. lb.	.14 -	—
30-31%, bbls., same basis. lb.	.15 -	—
32-33%, bbls., same basis. lb.	.16¼-	—
34-35%, bbls., same basis. lb.	.17¼-	—
36-40%, bbls., same basis. lb.	.20 -	—
41-45%, bbls., same basis. lb.	.22¼-	—
46-50%, bbls., same basis. lb.	.22¾-	—
51-55%, bbls., same basis. lb.	.23½-	—
56-60%, bbls., same basis. lb.	.24 -	—
61-65%, bbls., same basis. lb.	.25 -	—
66-70%, bbls., same basis. lb.	.26¼-	—

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c. El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.

Chrome oxide, pure, bgs., works. lb.	.29½-	.36½
Malachite, thioflavin toner, molybdic, bbls., works. lb.	3.00 -	—
tungstic, bbls., works. lb.	3.50 -	—
Phthalocyanin, tetrahydroxide (hydrated chromium oxide), bbls., works. lb.	.85 -	—
toner, bbls., works. lb.	4.00 -	5.00
Paris (see P).		
Tungstated, brilliant, kgs. lb.	3.00 -	4.00
emerald, kgs. lb.	2.60 -	—
Verdigris (see V).		
Green dyes (see Dyes, coaltar).		
Grindelia robusta, bls. lb.	.30 -	.35
Gualac, resin, cs. lb.	.32 -	.34
Wood, bls. lb.	.35 -	.36
Guaiacol, cryst., N.F., tins. lb.	1.60 -	1.65
Liquid, N.F., bots., cbys. lb.	1.50 -	1.60
Carbonate, dms. lb.	2.40 -	2.45
Guarana, powd., cs. lb.	2.00 -	2.10
Gum accroides (see Gum, yacca).		
Aloe (see A).		
Ammoniac, tears, cs. lb.	.90 -	.95
Arabic, amber, sorts, bgs. lb.	.14½-	.15
white, sorts, 1, bgs. lb.	.28 -	.29
Asphaltum (see A).		
Asafetida (see A).		
Benzoin, Sumatra, cs. lb.	.85 -	.90
Camphor (see C).		
Copal, Congo, bgs. lb.	No prices.	
East India, bgs. lb.	No prices.	
Manila, baskets lb.	No prices.	
Dammar, cs. lb.	No prices.	
Elemi, cns. lb.	No prices.	
Ester, gum-resin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va....any quantity.	.20 -	—
lb.	.21 -	—
wood-resin type, dms., any quantity, dlvd. Ill., Ind., etc. lb.	.19 -	—
Euphorbium, cs. lb.	1.50	Nom.
Galbanum, cs. lb.	.95 -	1.00
Gamboge, pipes, cs. lb.	2.40 -	2.50
powd., bbls. lb.	2.50 -	2.60
Ghatti, bgs. lb.	No stocks.	
Gualac (see Gualac resin).		
Karaya, bbls., bxs., dms. lb.	.21 -	.50
Kauri, cs. lb.	No prices.	
Locust bean, powd., bbls. lb.	.50 -	.60
Mastic, cs. lb.	2.75 -	3.00
Myrrh, cs. lb.	.48 -	.50
Olibanum, siftings, cs. lb.	.12 -	.13
tears, cs. lb.	.27 -	.45
Opium (see O).		
Red (see Gum yacca).		
Rosin (see R).		
Sandarac, bgs. lb.	.90 -	.95
Scammony, cs. lb.	1.50 -	1.55
Talha, bgs. lb.	.10 -	.11
Tragacanth, No. 1, cs. lb.	4.50 -	5.00
No. 2, cs. lb.	3.75 -	3.80
No. 3, cs. lb.	3.20 -	3.45
Yacca, bgs. lb.	No prices.	

Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald. ton.	22.65 -	—
Harlem River, N. Y., frt. frt. equald. ton.	28.25 -	—
Medicine Lodge, Kan., frt. equald. ton.	17.00 -	—
New Brighton, N. Y., frt. equald. ton.	30.65 -	—
Southard, Okla., frt. equald. ton.	17.00 -	—
Sweetwater, Tex., frt. equald. ton.	21.45 -	—
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald. ton.	12.50 -	—
Blue Rapids, Kan., frt. equald. ton.	10.50 -	—
Harlem River, N. Y., frt. equald. ton.	12.00 -	—
Medicine Lodge, Kan., frt. equald. ton.	12.50 -	—
New Brighton, N. Y., frt. equald. ton.	13.00 -	—
Southard, Okla., frt. equald. ton.	12.50 -	—
Sweetwater, Tex., frt. equald. ton.	12.50 -	—
Stucco, paper bgs., c.l., Acme, Texas; Akron, N. Y.; Blue Rapids, Kan.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, Ohio; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald. ton.	8.00 -	—
Saltville, Va., frt. equald. ton.	9.00 -	—
Terra alba, paper bgs., c.l., Harlem River, N.Y.; New Brighton, N. Y., same basis. lb.	14.40 -	—

H

Hawthorn berries, bgs. lb.	.60 -	.65
Heliotropin, cryst., cns. lb.	2.95 -	4.00
Hellebore, white, powd., bbls. lb.	.46 -	.47
Helonias root, bls. lb.	2.25 -	2.30
Hematine extract, cryst., No. 6, bbls., l.c.l. lb.	.41 -	—
No. 1, bbls., l.c.l. lb.	.40 -	—
No. 1A, bbls., l.c.l. lb.	.37 -	—
No. 2, bbls., l.c.l. lb.	.36 -	—
No. 3, bbls., l.c.l. lb.	.34 -	—
No. 4, bbls., l.c.l. lb.	.32 -	—
No. 5, bbls., l.c.l. lb.	.30 -	—
paste, No. 1, bbls., l.c.l. lb.	.17½-	—
No. 2, bbls., l.c.l. lb.	.16½-	—
No. 3, bbls., l.c.l. lb.	.15½-	—
red, No. 4, bbls., l.c.l. lb.	.14½-	—
Hemlock bark extract, 25% tan, bbls., c.l., works. lb.	No stocks	
tanks, works. lb.	No stocks	
Henbane leaves, bls. lb.	1.00 -	1.25
Henna leaves, bls. lb.	.29 -	.30
powd., bbls., bxs. lb.	.34 -	.36
Heptane, industrial grade, 50°-100° C., dms., c.l., Group 3, gal.	.12½-	—
l.c.l., Group 3. gal.	.19 -	—
tanks, Group 3. gal.	.10½-	—
77°-115° C., dms., c.l., Group 3..gal.	.13 -	—
l.c.l., Group 3. gal.	.19 -	—
tanks, Group 3 gal.	.10½-	—
laboratory grade, dms., c.l., Group 3..gal.	.16 -	—
l.c.l., Group 3. gal.	.29 -	.55
Hexalin (see cyclohexanol).		
Hexaethyl tetraphosphate, cns., works.. lb.	1.25 -	—
dms., c.l., works. lb.	.80 -	—
l.c.l., works. lb.	.90 -	1.00
Hexamethylenetetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C.. lb.	.24 -	—
smaller lots, same basis.. lb.	.25 -	—
USP, dms., 500 lbs. or more, same basis.. lb.	.35 -	—
smaller lots, same basis.. lb.	.36 -	—
Hexane, 60°-70° C., industrial grades, dms., c.l., Group 3. gal.	.13½-	—
l.c.l., Group 3. gal.	.19 -	—
tanks, Group 3. gal.	.10½-	.11
laboratory grade, dms., c.l., Group 3..gal.	.16 -	—
l.c.l., Group 3. gal.	.29 -	.55
Hexanol, normal, dms., l.c.l., works.. lb.	.25 -	—
Homatropine hydrobromide, bots. oz.	15.00	-25.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago..unit-ton.	8.50 -	—
Hops, NF, bls. lb.	.55 -	1.30
Horehound, bls. lb.	.12½-	.13
Hydrangea, root, bls. lb.	.22 -	.25
Hydrastine, alkaloid, bots. oz.	20.00	-22.00
Hydrochloride, bots. oz.	20.00	-22.00
Sulphate, bots. oz.	29.00	-32.00
Hydrastinine, 10-gr. bots. bot.	1.95 -	—
Hydrastis (see Goldenseal).		
Hydrofuramide, dms., fib. cns., works.. lb.	.30 -	.40
Hydrogen peroxide, USP, bbls. lb.	.03¾-	.04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal.. lb.	.15½-	.18½
Hydroquinine, bbls., dms. lb.	.90 -	.94
Hydroxycitronellal, cns. lb.	17.50	-21.60
dms., extra, ret'able, dlvd. lb.	No prices	
Hyoscine hydrobromide, bots. oz.	39.00	-45.00
Hyoscyamine, bots. oz.	18.00	-20.00
Hydrobromide, bots. oz.	18.00	-19.50
Sulphate, bots. oz.	14.00	-19.50

FROM SHELL CHEMICAL

Diisobutylene

(Approx. 80% 2,4,4-Trimethylpentene-1—20% 2,4,4-Trimethylpentene-2)

Free of extraneous olefins . . . and containing tertiary double bonds only . . . this controlled-quality intermediate is available for immediate shipment in drum or tank car quantities

SPECIFICATIONS	
Distillation range	100°-103° C
Acidity	Less than .004% by weight (as H_2SO_4)
Color	Water white
Odor	Sweet

REACTIONS:

ALKYLATION: Both isomers yield identical alkylation products

HYDROGENATION, CHLORINATION, BROMINATION

ADDITION OF HCl, HBr, HI—H_2SO_4—HNO_3—HOCl, HOBr—O_3—N_2O_3—NO_2—NOCl—S_2Cl_2—SCl_2—H_2O_2, etc.

FOR CONSIDERATION IN THE MANUFACTURE OF:

Synthetic detergents — Phenolic resins
Wetting and dispersing agents
Oil-soluble varnishes — Textile finishing agents

Other products manufactured by Shell Chemical include: Acetone, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl Isobutyl Carbinol, Tertiary Butyl Alcohol, Allyl Alcohol.

A request on your business letterhead will bring quotations and a sample if desired.

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Hypernic extract, cryst., No. 1, bbls., l.c.l.	lb.	.48	—
No. 2, bbls., l.c.l.	lb.	.40	—
liquid, No. 1, bbls., l.c.l.	lb.	.27	—
No. 2, bbls., l.c.l.	lb.	.22	—
solid, No. 1, bxs., l.c.l.	lb.	.33	—
Hyssop, bgs.	lb.	.60	- .61
leaves, bgs.	lb.	.69	- .70

I

Iceland moss, bgs.	lb.	.50	- .52
Ichthammol, NF, bots.	lb.	2.45	- —
Indian red (see Red, Indian).			
Indigo, nat., chests	lb.	2.14	- 2.30
synth., paste, bots.	lb.	.16½-	.19
powd., bbls.	lb.	.74½-	.85
Indol, CP, bots.	lb.	19.00	-22.00
Inositol, tins, works.	lb.	5.00	- —
Insect flowers (see Pyrethrum).			
Iodine, crude, 150-lb. kgs., ex whse., Staten Island	lb.	1.42½-	—
resubl., 5-lb. bots., jars	lb.	2.10	- 2.20
Iodoform, 100-lb. dms., kgs.	lb.	4.45	- —
Ionone, ketone, bot.	lb.	6.00	-14.00
Methyl, bot.	lb.	6.25	-16.85
Ipecac root, bgs.	lb.	6.00	- 6.25
powd., bgs.	lb.	6.25	- 6.50
Irish moss, bleached, prime	lb.	.25	- .30
Iron acetate, liquor, bbls., c.l., dlvd.	lb.	.17	- —
l.c.l., dlvd.	lb.	.18	- —
solut., USP IX, 100-lb. cbys.	lb.	.17	- —
50-lb. djns.	lb.	.18	- —
Chloride (ferric), anhydr., tech., dms., c.l., works, 100 lbs.		4.90	- 5.25
l.c.l., works, 100 lbs.		6.50	- 6.85
cryst., tech., bbls., works, frt. alld., 100 lbs.		4.00	- 6.00
USP X, lump, bbls.	lb.	.07	- .08¼
solut., 42 Be, cbys., works, frt. alld. or equald.	lb.	.05½-	.06
djns., same basis.	lb.	.10	- —
Iron citrate, gran., dms.	lb.	.72	- .74
Glycerophosphate, N.F., powd.	lb.	4.35	- —
Hypophosphite, bbls., dms.	lb.	1.50	- 1.52
Iodide, bots.	lb.	3.46	- 3.63
Naphthenate, 6% Fe, 50-gal. dms.	lb.	.16½-	.17¼
Nitrate, red, tech., dms.	lb.	.03½-	.04
Oxalate, gran., dms.	lb.	.33	- .35
powd., cns.	lb.	.52	- —
kgs.	lb.	.47	- .49
Phosphate, soluble, NF, gran., cs.	lb.	.54	- .57
Pyrophosphate, NF, gran., soluble, dms.	lb.	.59	- .62
Reduced, 90%, kgs.	lb.	.65	- .75
Resinate, 7.4% Fe, 100-lb. dms.	lb.	.21	- —
Sulphate (ferric), anhyd., bgs., c.l., works	ton.	35.00	- —
l.c.l., works	ton.	40.00	- —
partially hydrated bgs., c.l., works	ton.	26.50	- —
(ferrous) tech. (see Copperas).			
USP, cryst., bbls., dms.	lb.	.06	- .08
Tallate, 4% Fe, 50-gal. dms.	lb.	.10¼-	—
Iron - ammonia citrate, brown, green, gran., dms.	lb.	.40	- .43
Oxalate, bbls.	lb.	.23½-	—
dms., kgs.	lb.	.25½-	.26½
Iron-soda oxalate, bbls., dms.	lb.	.23½-	.26½
Isobornyl acetate, cns., works.	lb.	.80	- .95
Isobornyl thiocyanoacetate, dms., c.l., works.	gal.	4.35	- —
l.c.l., works	gal.	4.45	- 4.55
tanks, works	gal.	4.23	- —
Isobutyl acetate, cns.	lb.	1.10	- —
Propionate, cns.	lb.	No prices	
Isobutyraldehyde, dms., works.	lb.	.33	- —
10-gallon lots, works.	lb.	.36	- —
Isoeugenol, extra cns.	lb.	3.75	- 4.35
Isopentane, dms., works.	lb.	.45	- .55
Isophorone, dms., c.l., works.	lb.	.21	- —
l.c.l., works.	lb.	.22	- —
tanks, works.	lb.	.20	- —
Isopropanol (see Alcohol, Isopropyl).			
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld.	lb.	.1160-	—
l.c.l. E. of Rockies, same basis.	lb.	.1210-	—
tanks, E. of Rockies, same basis.	lb.	.1100-	—
Alcohol (see Alcohol, Isopropyl).			
Ether, dms., c.l., dlvd.	lb.	.06	- —
l.c.l.	lb.	.06½-	—
tanks, dlvd.	lb.	.04½-	—
Isopropylamine, dms., works.	lb.	.26	- —

J

Jaborandi leaves, bls.	lb.	.25	- .28
Jalap root, NF, bls.	lb.	.45	- .50
powd., bbls., bxs.	lb.	.55	- .60
Resin, lump, cns.	lb.	5.85	- —
powd., bxs.	lb.	5.90	- —
Juniper berries, bgs.	lb.	.18	- .20
Juniper tar, USP, dms.	lb.	.68	- 1.00

K

Kamala, powd., cns.	lb.	.46	- .48
Kaolin (see China clay).			
Kava kava root, bls.	lb.	.35	- .40
Kerosene, at refinery: Ark., 42-44 w.w., tanks.	gal.	.05¾-	—
Bayonne, 41-43, w.w., tanks.	gal.	.061	- —
California, 40-43, w.w., tanks.	gal.	.07	- —
Gulf ports, 41-43 w.w., tanks.	gal.	.05½-	.05925
Okla-Tex., 41-45 w.w., tanks.	gal.	.05¾-	.06
Penn., 45 w.w., tanks.	gal.	.07	- .07¼
47 w.w., tanks.	gal.	.07625-	.08
Kola nuts, bgs.	lb.	.10	- .11
Kyanite, imp., low iron content, 10-mesh, whse.	ton.	85.00	-95.00
calcined, grain, 10-mesh, whse.	ton.	95.00	-105.00

L

Ladyslipper root, bls.	lb.	1.35	- 1.40
Lanolin (see Adeps lanae).			
Lard, cash, Chicago, tcs.	lb.	.29½	Nom.
Larkspur seed, bgs.	lb.	.65	- .70
Laurel berries, bls.	lb.	.25	- .26
Leaves, Algerian, bls.	lb.	.16	- .16½
Cyprus, bls.	lb.	.28	- .29
Greek, bls., futures	lb.	.20	- .21
Italian, bls.	lb.	.16	- .16½
Portuguese, futures, bls.	lb.	.16	- .16½
choice, bls.	lb.	.17	- .17½
Turkish, bls.	lb.	.15	- .15½
Lavender flowers, medium, bls.	lb.	.60	- .65
ordinary, bls.	lb.	.38	- .45
select, bls.	lb.	.65	- .70
Lead, acetate, white, broken, bbls.	lb.	.17	- —
cryst., bbls.	lb.	.17¾-	—
gran., powd., bbls.	lb.	.17¾-	—
Arsenate, basic powder, 3-lb. bgs. or larger, c.l.	lb.	.20	- —
l.c.l.	lb.	.21	- .22
1-lb. bags, c.l.	lb.	.27½-	—
l.c.l.	lb.	.28½-	.29½
Lead arsenate prices are works or whse. basis, frt. alld. to dest. East.			
Blue, basic sulphate, bbls., c.l., 20-ton lots, dlvd. E.	lb.	.13¾-	—
dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo.	lb.	.14	- —
l.c.l., dlvd. E.	lb.	.14	- —
dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash. Wyo.	lb.	.14¼-	—
Carbonate (see Lead, white).			
Chloride, fib. dms.	lb.	.49	- —
Iodide, NF V, jars.	lb.	2.94	- —
Linoleate, solid, 13%, bbls.	lb.	.41¾-	—
Metal,* (see Protective Coatings Materials market).			
Metallic paste, dms., works.	lb.	No stocks.	
Naphthenate, 20% Pb, liquid, dms.	lb.	.18½-	—
30% Pb, liquid, dms.	lb.	.22½-	—
37% Pb, solid, dms.	lb.	.27½-	—
Nitrate, bbls.	lb.	.15¼-	.15½
Oleate, bbls.	lb.	.17¾-	—
Peroxide, powd., tech., bbls.	lb.	.28	- .28
Red, 95% Pb_3O_4, or less bbls., c.l. (20 tons), dlvd. Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash.	lb.	.15¾-	—
other points	lb.	.15½-	—
l.c.l., 5 tons, dlvd. Ala., Cal., Fla., Ga., La., Miss., Tex., and W. of Cascade Mts. in Ore. and Wash.	lb.	.16¼-	—
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash.	lb.	.16¾-	—
Colo., Mont., N. Mex., Wyo.	lb.	.16½-	—
other points	lb.	.16¾-	—
smaller lots, Ala., etc.	lb.	.16¾-	—
Ariz., etc.	lb.	.17¼-	—
Colo., etc.	lb.	.17 -	—
other points	lb.	.16¾-	—
in oil, kgs.	lb.	.24¼-	—
97% Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo. and E. of Cascade Mts. in Wash. and Ore.	lb.	.16 -	—
other points	lb.	.16½-	—
l.c.l., 5 tons, dlvd. Ala., etc.	lb.	.17 -	—
Ariz., etc.	lb.	.16¼-	—
Colo., etc.	lb.	.16¼-	—
other points	lb.	.16½-	—
smaller lots, dlvd. Ala.	lb.	.17 -	—
Ariz., etc.	lb.	.17¼-	—
Colo., etc.	lb.	.17¼-	—
other points	lb.	.16¾-	—
95% Pb_3O_4, bbls., c.l. (20 tons), dlvd. Ala., etc.	lb.	.16¼-	—
other points	lb.	.16 -	—
l.c.l., 5 tons, dlvd. Ala., etc.	lb.	.16¾-	—
Ariz., etc.	lb.	.17¼-	—
Colo., etc.	lb.	.17 -	—
other points	lb.	.16½-	—
smaller lots, dlvd. Ala., etc.	lb.	.17¼-	—
Ariz., etc.	lb.	.17¾-	—
Colo., etc.	lb.	.17½-	—
other points	lb.	.16¾-	—
Resinate, precip., 23.8% Pb, dms.	lb.	.22¼-	—
Silicate, bgs.	lb.	.15 -	.15½
Soyate, 20.15% Pb., dms.	lb.	.22¼-	—
Stearate, bbls.	lb.	.34½-	.35½
Sulphate (see Lead, blue; Lead, white, basic sulphate).			
Tallate, 10% Pb, dms.	lb.	.10 -	.11
Titanate, bgs., bbls., c.l., l.c.l., 6 tons, one delivery, E. frt. alld.	lb.	.11¼-	—
Pac. Cst., ex whse.	lb.	.11½-	—
smaller lots, E. frt. alld.	lb.	.11½-	—
Pac. Cst., ex whse.	lb.	.11¾-	—
White, basic carbonate, bbls., c.l., dlvd. Ariz., Calif., Colo., Idaho, Mont., Nev. N. Mex., Ore., Utah, Wash., and Wyo.	lb.	.14½-	—
dlvd. other points	lb.	.14¼-	—
l.c.l., dlvd. Ariz., etc.	lb.	.14¾-	—
other points	lb.	.14½-	—
basic sulphate, bbls., c.l., dlvd. Ariz., etc.	lb.	.13¾-	—
other points	lb.	.14 -	—
l.c.l., dlvd. Ariz., etc.	lb.	.14 -	—
other points	lb.	.13¾-	—
in oil, consumers, kgs.	lb.	.24½-	—
painters, kgs.	lb.	.23¼-	—
Lecithin, edible, dms., c.l.	lb.	.36 -	—
l.c.l.	lb.	.38½-	.39½
tech., dms., c.l.	lb.	.36 -	—
l.c.l.	lb.	.38½-	.39½
Lemon peel, bls.	lb.	.35 -	.40
Licorice extract, mass, cns.	lb.	.40 -	.42
powd., bbls.	lb.	.60 -	.62
Root, natural, bls.	lb.	.12 -	.14
powd., bbls.	lb.	.18 -	.20
5-lb. bundles, cs.	lb.	.65 -	.66
Lignin extract, tanning grade, bgs., c.l., works.	lb.	.04¾-	—
Lime, agricultural, bulk, works.	tons.	9.00	- 9.50
Chemical (quicklime), lump, pebble, Adams, Mass.	ton.	9.00	- —
Annville, Pa.	ton.	8.50	- —
Bellefonte, Pa.	ton.	8.50	- —
Berkeley, W. Va.	ton.	8.50	- —
Buffalo, N. Y.	ton.	10.25	- —
Carey, Ohio	ton.	7.00	- —
Cedar Hollow, Pa.	ton.	9.00	- —

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This means you now have available milk chemicals outstanding in dependable chemical performance—products of the world's largest dairy—and backed by a rare wealth of experience. With SHEFFIELD *Milk Chemicals you profit by three substantial advantages: lower cost . . . highest efficiency . . . broader service.*

"New Process" Casein*★—superior grade industrial casein unusually high in quality and uniformity. Available in 76-lb. multi-wall bags. F.o.b. Norwich, N. Y., Boonville, N. Y., or Vergennes, Vt., as inventory permits shipment. (Gross for Net.)*

"High pH" Casein*★—specially processed casein less acid than "New Process" Casein. Excellent for emulsions and dispersions. Particularly recommended as a protein emulsifier in the production of synthetic rubber and in the emulsifying of synthetic latex. In 76-lb. multi-wall bags. F.o.b. Norwich, N. Y. (Gross for Net.)*

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"De Vitaminized" Casein*★—an edible protein of high nutritional value and balance, minimum vitamin content. In 75-lb. multi-wall bags. Freight allowed in continental U. S. A.*

Milk Sugar (Lactose)*—U.S.P. and edible grades. Highest quality products in their respective grades. In 200-lb. wooden barrels. F.o.b. Hobart, N. Y.*

Calcium Lactate*—U.S.P. edible calcium in a form particularly desirable for its assimilability. In 200-lb. fibre drums. Freight allowed in continental U. S. A.*

Sodium Lactate—50% refined*—edible, water-white product highly hygroscopic, with physical properties similar to glycerine. In 55-gallon barrels. F.o.b. Norwich, N. Y.* ***50% technical****—non-edible, pale brown product, valuable wherever edibility and water-white qualities of 50% refined sodium lactate are not required. In returnable 55-gallon drums. F.o.b. Norwich, N. Y.*

"N-Z-Amine"*★—Tryptic digest of casein. Contains, in form of* *amino acids,* *with a portion of the respective peptides, etc., all those in the original protein—including those now believed to be essential to human nutrition. Also valuable as a bulk peptone in the production of micro-biologicals. In 100 and 300 lb. fibre drums. F.o.b. Oneonta, N. Y.*

"N-Z-Case"*★—A bacteriological laboratory peptone of high quality made from a tryptic digestion of casein. Relatively high in tryptophane content. "N-Z-Case" is noted in the Methods used by the Food and Drug Administration for the* *assay of penicillin.* *"N-Z-Case" conforms to the specification for "Pancreatic Digest of Casein" indicated in the National Institute of Health circular titled "Culture Media for the Sterility Test." Sold only in 1-lb. bottles. F.o.b. Oneonta, N. Y.*

★Trade-marks of Sheffield Farms Company, Inc.

Detailed information and samples of any of these products are yours simply for the asking. Write, wire, or phone.

Chemurgic Division
SHEFFIELD FARMS CO., INC.
524 WEST 57TH STREET
NEW YORK 19, N. Y.
Phone COlumbus 5-8400

SHEFFIELD — *century-old name in milk — latest word in milk chemicals*

DIVISION OF NATIONAL DAIRY PRODUCTS CORPORATION

Lime, chemical (quicklime), lump, pebble, Crab Orchard, Tenn..ton. 7.90 - —
Eagle Mountain, Va..ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 7.50 - —
Keystone, Ala.....ton. 7.90 - —
Knoxville, Tenn.....ton. 7.90 - —
Limedale, Ark.....ton. 8.00 - —
Longview, Ala.....ton. 7.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 8.50 - —
Martinsburg, W. Va..ton. 8.50 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 7.50 - —
Nawala, Ala.....ton. 7.90 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Texas....ton. 7.90 - —
Sherwood, Wisc.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
Hydrated, paper bgs., Adams, Mass..ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Berkeley, W. Va....ton.10.00 - —
Buffalo, N. Y.....ton.10.50 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton.10.00 - —
Crab Orchard, Tenn..ton.10.65 - —
Eagle Mountain, Va..ton.10.00 - —
Farnams, Mass.....ton.10.00 - —
Gibsonburg, Ohio....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton.11.65 - —
Knoxville, Tenn.....ton.10.65 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala.....ton.11.65 - —
Manistique, Mich....ton. 9.50 - —
Marblehead, Ohio....ton.10.50 - —
Martinsburg, W. Va..ton. 8.50 - —
Mitchell, Ind.....ton.10.00 - —
Newala, Ala.....ton.11.65 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich...ton. 9.00 - —
Rapid City, S. Dak..ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.11.65 - —
Sherwood, Wisc.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.10.00 - —
Spray, Adams, Mass., paper bgs. ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.10.00 - —
Marblehead, Ohio....ton.10.00 - —
Rockland, Maine....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.10.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen* 20.5% N. (see Ammonia nitrate-limestone).
Limestone, ground, bulk, works.. ton. 1.40 - —
Linalool .....lb. 7.25 - 7.60
Linalyl acetate, ex bois de rose, bots..lb. 8.50 - —
ex lignaloe wood, bots.....lb. 7.75 - 8.40
ex petitgrain, bots.....lb. 5.15 - 6.90
Linden flowers with leaves, bls. lb. .40 - .42
without leaves, bls.....lb. .65 - .70
Linseed meal, 34%, bulk, mills. ton.80.00 - —
Litharge, com'l, powd., bbls., c.l., dlvd. Ala., Ariz., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Tex., Utah, Wyo. and E. of Cascade Mts. in Ore. and Wash..lb. .14½ - —
other points.....lb. .14½ - —
l.c.l., 5 tons, dlvd., Ala., Cal., Fla., Ga., La., Miss., Tex., and W. of Cascade Mts. in Ore. and Wash..lb. .15 - —
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash..lb. .15½ - —
Colo., Mont., N. Mex., Wyo..lb. .15¾ - —
other points.....lb. .15 - —
smaller lots, dlvd. Ala., etc..lb. .15½ - —
Ariz., etc.....lb. .16¾ - —
Colo., etc.....lb. .16 - —
other points.....lb. .15¼ - —
Lithium bromide, bbls., 100-lb. lots, works, frt. equald.lb. 1.90 - —
Carbonate, NF, bbls., kgs...lb. 1.15 - —
Chloride, jars.....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs...lb. 1.30 - 1.45
Fluoride, bbls.....lb. 1.90 - —
Hydroxide, jars.....lb. 1.15 - 1.25
Lithopone, ordinary, bgs., c.l., (20 tons)..lb. .05½ - —
l.c.l. .....lb. .05¾ - —
bbls., c.l.....lb. .05¾ - —
l.c.l. .....lb. .06 - —
Titanated (high-strength), bgs. lb. .07½ - —
smaller lots.....lb. .07½ - —
bbls., c.l.....lb. .07½ - —
smaller lots.....lb. .07¾ - —
Lithopone, c.l., dlvd. Pac. Cst., ¼c. higher; l.c.l., ex whse. Pac. Cst. ½c. higher.
Liverwort leaves, bls.....lb. .75 - .90
Lobelia herb, bls.....lb. .80 - .85
Lobeline sulphate, bots., wks.oz.25.50 -33.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .34 - —
No. 2, bbls., l.c.l.....lb. .32 - —
liquid, No. 1, bbls., c.l....lb. .17 - —
No. 2, bbls., l.c.l.....lb. .16 - —
No. 3, bbls., l.c.l.....lb. .15½ - —
No. 4, bbls., l.c.l.....lb. .15 - —
solid, No. 1, bxs., l.c.l.....lb. .28 - —
No. 2, bxs., l.c.l.....lb. .26 - —
bbls., c.l., Zone 1.....lb. .09½ - —
No. 4, bxs., l.c.l.....lb. .23 - —
No. 8, bgs., l.c.l.....lb. .23½ - —
No. 5, bxs., l.c.l.....lb. .21½ - —
No. 6, bxs., l.c.l.....lb. .39½ - .44¼
Lovage root, imported bls....lb. 1.20 - 1.25
Lupulin, NF, tin.....lb.10.00 -11.00
Lycopodium, USP, cs.....lb. 2.50 - 3.00

M

Mace, Banda, cs.....lb. No stocks.
West Indian, bgs., futures..lb. 1.60 - 1.70
Broken, bgs., futures.....lb. 1.30 - 1.40
Madder, Dutch, bbls.....lb. .24 - .25
Magnesia arsenate, bgs., cans, works..lb. .20 - .30
Calcined, tech., bbls., works, lb. .30 - —
USP, works .....lb. .31 - .33
Magnesia, carbonate, tech., bgs., c.l., frt. equald..lb. .07¼ - —
l.c.l., frt. alld.....lb. .08¼ - —
bbls., c.l., frt. equald....lb. .08½ - —
l.c.l., frt. alld.....lb. .09½ - —
kgs., c.l., frt. equald....lb. .09¾ - —
l.c.l., frt. alld.....lb. .10¾ - —
USP, bgs., c.l., frt. equald. lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald....lb. .09¼ - —
l.c.l., frt. alld.....lb. .10¼ - —
kgs., c.l., frt. equald....lb. .10¾ - —
l.c.l., frt. alld .....lb. .11¼ - —
Magnesia carbonate is quoted frt. alld. to N. J., except to Atlanta, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald, to N.Y.C. on all other destinations.
Chloride, anhyd., bbls., dlvd.lb. .12¾ - —
flake, bbls., c.l., works.ton.37.00 - —
l.c.l., works .....ton.44.00 -46.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns. .....lb. 1.45 - —
Laurate, bbls.....lb. .33 - .38
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works..lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls. lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls.....lb. .14 - .16
Stearate, ctns., 2,000 lbs. to c.l. lb. .50 - —
smaller lots.....lb. .51 - .52
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts..lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, cal., powd., bgs., c.l., mines, Calif..ton.58.75 - —
dead-burnt, bulk, c.l., Chewelah, Wash..ton.22.00 -32.00
Maleic anhydride, dms., c.l....lb. .25 - —
l.c.l. .....lb. .26 - —
Malva flowers, black, bls.....lb. No stocks
blue, bls.....lb. 1.55 - 1.60
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .45
Manganese acetate, dms.....lb. .25½ - —
Arsenate, bgs.....lb. .12 - .12¼
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., bbls., wks.lb. .14 - .16
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
85-90%, bbls., c.l., works... ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
84-87%, burlap bgs., c.l., works..ton.71.75 - —
l.c.l., works.....ton.74.75 -79.70
paper bgs., c.l., works.ton.70.00 - —
l.c.l., works.....ton.73.00 - —
Glycerophosphate, fib. dms..lb. 4.25 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide, bots.....lb. 5.70 - —
jars .....lb. 5.55 - —
Linoleate, liquid, 4%, dms...lb. .42¾ - —
solid, precip., 8.2%, bbls..lb. .44¾ - —
Naphthenate, 6% Mn, liquid, dms..lb. .19¼ - —
10% Mn, solid, dms.....lb. .29¼ - —
Resinate, fused, 3½%, bbls..lb. .09 - .10½
precip., dms.....lb. .19 - —
Soyate, 8.2% Mn, dms.....lb. .22 - —
Sulphate, anhyd., dms., works. lb. No stocks
feed grade, 77-80%, bgs....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd. East..ton.56.00 - —
l.c.l., same basis, or Balto. or Cincinnati... ton.63.00 - —
industrial grade, 80%, bgs.lb. .05 - .05¾
75%, bgs., c.l., dlvd. East. ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, 4% Mn, dms.....lb. .10¼ - .11½
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock, U. S. ports..ton.60.00 -62.00
Manna, flake, large, cs.....lb. 1.50 - 1.55
small, cs. .....lb. No stocks.
Mannitol, com'l, bbls., works.lb. .38 - .43
reagent, cs. or multiples, works..lb. .35 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
California, French type, new crop, bls., Pacific Coast.lb. .35 - .38
Chilean, bls.....lb. .11 - .11¼
futures, bls.....lb. .10¾ - .11
Matico leaves, bls.....lb. .15 - .15½
Menadione, USP, bots., works, gram. .10 - —
Menthol, natural, USP, Brasilian, cns..lb. 7.70 - 8.00
synthetic, tech., cns.....lb. No prices.
USP, laevo, cns.....lb. No prices.
racemic, cns. .....lb. 6.10 - 6.20
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercurial ointment, USP, mild, 10%, dms..lb. .70 - .72
strong, dms. .....lb. 1.88 - 1.90
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms. .....lb. 2.59 - 2.61
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.86 - —
Iodide, red, NF, dms.....lb. 4.32 - —
yellow, NF, fib. dms....lb. 4.42 - —
Oxide, red, NF (see Red precipitate).
yellow, USP, fib. dms.....lb. 2.74 - 2.76
tech. (see Yellow, mercury oxide).
Mesityl oxide, dms., c.l., dlvd.gs. .11¼ - —
l.c.l., dlvd. .....lb. .12 - —
tanks, dlvd. .....lb. .10¼ - —
Metal leaf, composition, 5½x5½ in..pkg. No stocks.
Gold X+, deep, 23, 3⅜x3⅜ in., pkg. No stocks.
Silver, 5¾x5¾ in.....pkg. No stocks.
Metanitroparatoluidin, bbls....lb. 1.16 - 1.21
Metaphenylenediamine, kgs....lb. .72 - —
Metatoicylenediamine, kgs.....lb. .77 - —

Paste this in Your Hat...

1 MIXING AND GRINDING EASE
2 PACKAGE STABILITY
3 HIDING
4 BRUSHABILITY
5 LEVELING
6 DRYING ACTION
7 WHITENESS
8 FOOL-PROOFNESS
9 FILM STRENGTH
10 FLEXIBILITY
11 TINT RETENTION
12 ADHESION
13 GLOSS
14 WEATHER RESISTANCE

Here's a tip the "Dutch Boy" has never tried to keep under his cap: Basic Carbonate White Lead does 14 things to make paint better.

Check the list above and see all the paint-making properties you get from this one pigment.

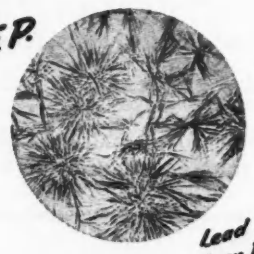
And remember, White Lead not only offers all 14 of these qualities, but imparts them, in well-balanced proportion, to paints.

White Lead's unique ability to form lead "soaps" accounts for many of these advantages. The "soap" story at the right tells why.

* * *

Our technical staff is at your call to help you fit "Dutch Boy" Basic Carbonate White Leads into your formulations. You get recommendations backed up by broad experience and 30 years of continuous paint-fence testing... *the longest project of its kind on record.*

L.S.M.F.P.



Lead Soaps Mean Fine Paint

When White Lead combines with oil, a distinctive type of "soap" is formed. As shown in the photomicrograph above, these soaps are of fibrous structure consisting of multiple projections radiating from a central core.

These intermeshing formations spread out and mechanically reinforce the paint film, giving it greater toughness, flexibility, adhesion and weather resistance.

White Lead's ready tendency to combine with linseed oil also explains why this pigment wets easily and gives such good mixing and grinding.

Dutch Boy *Basic Carbonate* **White Leads**

Reg. U. S. Pat. Off.

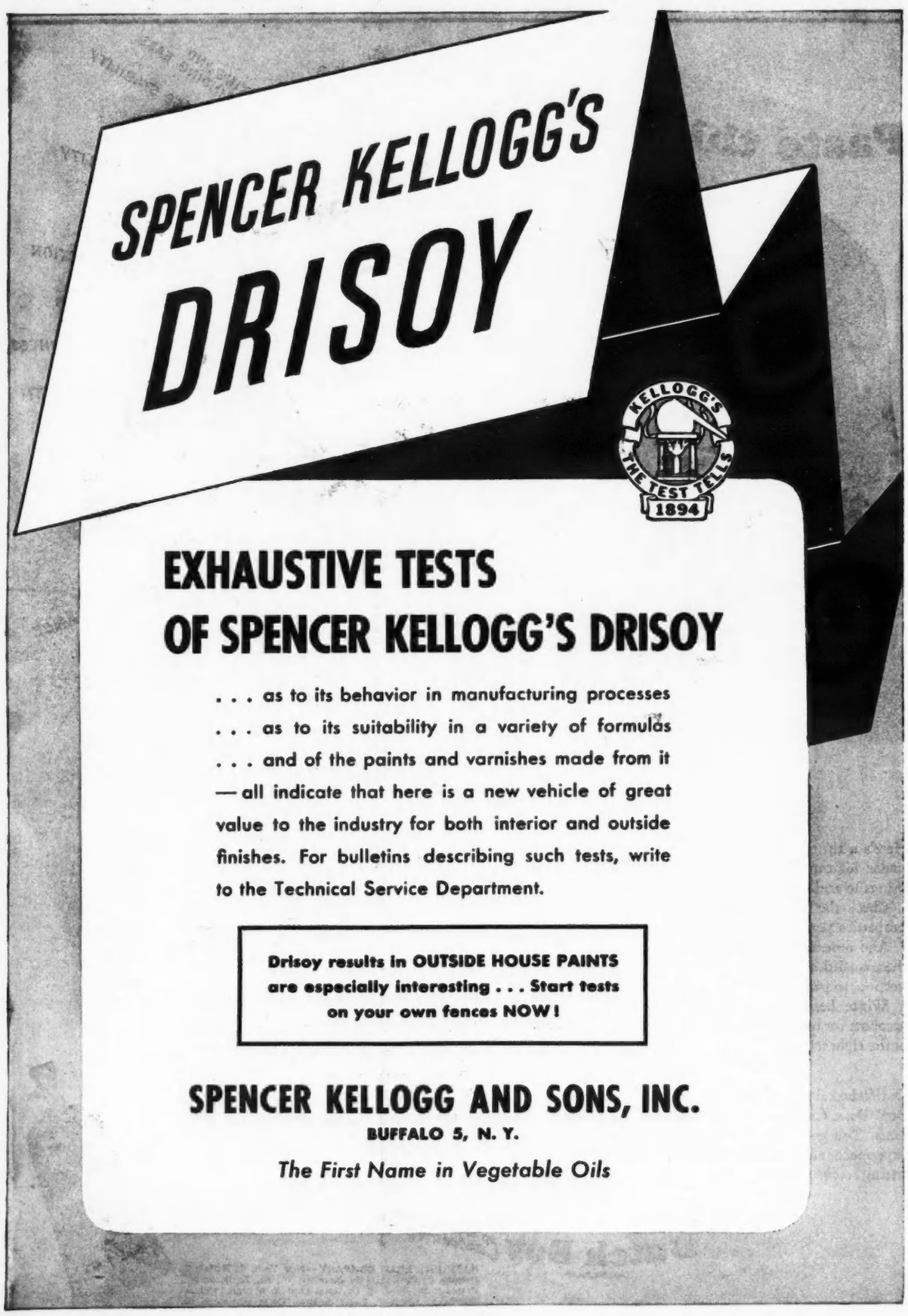
NATIONAL LEAD COMPANY—New York, 6; Buffalo 3; Chicago 8; Cincinnati 3; Cleveland 13; St. Louis, 1; San Francisco 10; Boston 6. (National Lead Co. of Mass.); Philadelphia 7. (John T. Lewis & Bros. Co.); Pittsburgh 30, (National Lead Co. of Pa.).

Methanol, natural, Group A, all grades, dms., extra, c.l., E. of Miss R..gal. .62 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
Group B, all grades, dms., incl. c.l. frt. alld.....gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis.....gal. .60 - —
Prices on natural methanol W. of Miss. R., 3c. higher.
synthetic, dms., c.l., Zone 1, frt. alld..gal. .31 - —
2, frt. alld. or dlvd....gal. .34 - —
3, frt. alld.....gal. .38 - —
4, frt. alld.....gal. .38 - —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .36 - —
2, frt. alld.....gal. .43 - —
3, dlvd. S. F. and L. A. gal. .41 - —
4 frt. alld. or dlvd....gal. .51½ - —
tanks Zone 1, frt. alld....gal. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. alld.....gal. .29 - —
4, frt. alld.....gal. .29 - —
Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C. Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco, Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.l., dlvd..lb. .16 - —
10 dms. .....lb. .16½ - —
1-9 dms. .....lb. .17 - —
hydrogenated, c.l., dlvd....lb. .17¼ - —
10 dms., dlvd. .....lb. .17¾ - —
1-9 dms., dlvd. .....lb. .18¼ - —
Acetate, CP, 97-99%, dms., c.l., E. of Miss..lb. .10½ - .12
W. of Miss. .....lb. .11½ - .12
l.c.l., E. of Miss....lb. .11 - .14
W. of Miss. .....lb. .12 - .13½
tanks, E. of Miss.....lb. .09½ - —
W. of Miss. .....lb. .10½ - —
tech., dms., c.l., E. of Miss.. lb. .07 - .09
W. of Miss. .....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½ - .11
W. of Miss.....lb. .08½ - .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. alld..lb. .09½ - —
Acetone, natural, Group A, dms., extra, c.l., E. of Miss., frt. alld..gal. .66 - —
l.c.l., same basis....gal. .76 - —
tanks, same basis....gal. .60 - —
Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.
Group B, dms. incl., c.l., E. Miss., frt. alld..gal. .67 - —
l.c.l., same basis....gal. .78 - —
tanks, same basis.....gal. .60 - —
synthetic, dms., c.l., works, frt. alld. E..lb. .49 - —
frt. alld. W.....lb. .51½ - —
l.c.l., works, frt. alld. E. lb. .53 - —
frt. alld. W.....lb. .55½ - —

Methyl acetone, synthetic, tanks, works, frt. alld. E..lb. .42½ - —
frt. alld. W.....lb. .44½ - —
Methyl acetone, synth. East territory is all states East of and including Colo., Mont., N. Mex. and Wyo. West territory, all states West of Colo., Mont., N. Mex. and Wyo.
Alcohol (see Methanol).
Anthranilate, dms. .....lb. 1.80 - —
bots., cns. .....lb. 2.20 - 2.60
Benzoate, cns. .....lb. .48 - 1.20
Bromide, cns. .....lb. .63 - .65
cyls. .....lb. .55 - .70
Chloride, indust. grade, cyl., works..lb. .16 - —
tanks, multi-unit, works..lb. .14¾ - —
single-unit, works.....lb. .14 - —
refrigeration grade, indust. consumers, refrigeration machinery mfgrs., cylinders, dlvd..lb. .33 - —
retail refrigeration consumers or service men, cylinders, dlvd..lb. .41 - —
Alcohol (see Methanol).
Cinnamate, cns. .....lb. 2.00 - 3.50
Formate, dms. .....lb. .89 - —
Iodide, bots.....lb. 3.00 - 3.25
Lactate, dms., c.l., dlvd.....lb. No stocks.
Oleate, dms., c.l.....lb. No prices.
Salicylate, dms., 500 lbs.....lb. .35 - —
25-50 lbs. .....lb. .37 - .38
Methylamyl ketone, cns.. dms.. works..lb. No stocks.

Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld..lb. .60 - —
smaller lots, frt. alld.....lb. .65 - .70
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more, frt. alld.....lb. .53 - —
smaller lots, frt. alld.....lb. .58 - .63
Methylcyclohexane, 98-100% dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%, dms,wks..lb. No stocks
Methylene blue, USP, 100-lb. lots, kgs., frt. equald..lb. 2.20 - —
50-lb. lots, bgs., same basis. lb. 2.30 - —
25-lb. lots, kgs., same basis. lb. 2.35 - —
Chloride, refrig., dms., dlvd. E..lb. .12 - .18
Methyleneanilin, lbs., ton lots, min. frt. alld..lb. .36 - —
smaller lots, same basis....lb. .37 - —
Methylethyl ketone, dms., dlvd.lb. .0960- .1000
l.c.l., dlvd. .....lb. .1010- .1050
tanks, dlvd.....lb. .0900- —
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd..lb. .12¼ - —
l.c.l., dlvd. .....lb. .13 - —
tanks, dlvd. .....lb. .11½ - —
Methylnaphthyl ketone, cns...lb. 3.00 - 4.00
Methylpentanediol, dms., dlvd., works..lb. .21½ - —
l.c.l., dlvd.....lb. .22 - —
1 and 5-gal. cont., Newark.. lb. .27 - .29
tanks, dlvd. .....lb. .20 - —
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works.ton.47.50 - —
l.c.l., works.....ton.51.00 - —
roofing, 20 to 80 mesh, works. ton.50.00 -60.00
graphite, bulk, Pa., mines.ton.80.00 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05¼ - —
l.c.l., ex whse., or frt. alld. E..lb. .05¾ - —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05 - —
l.c.l., ex whse. or frt. alld. E..lb. .05½ - —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .06½ - —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¼ - —
l.c.l., ex whse. or frt. alld. E..lb. .06¾ - —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .06½ - —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .06¾ - —
l.c.l., ex whse. or frt. alld. E..lb. .07¼ - —
Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, ¾c. higher.
Milk powder, skimmed, roller, bulk, c.l..lb. .15¼ - .17¼
spray, bulk, c.l.....lb. .15¾ - .17¼
whole, roller, bbls., c.l....lb. .40 - .41
spray, bbls., c.l.....lb. .41 - .42
Milk sugar, bbls., c.l., works..lb. .26 - —
l.c.l., works.....lb. .26¾ - .27¼
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tanks, works,
Area 1..gal. .19 - —
Area 2.....gal. .18½ - —
Area 3.....ton.26.00 - —
Area 4.....ton.29.00 - —
Area 5.....ton.34.60 - —
Area 1, Fla., Ga., La., Tex.; Area 2, Mass., Md., N. J., N. Y.; Area 3, Calif.; Area 4, Colo., Idaho, Kan., Mont., Neb. (excepting Grand Island), S. D., Utah, Ore., Wash., Wyo.; Area 5, Ia., Md., Mich., Minn., Grand Island, Neb., Ohio, Wis.
Molybdate orange (see Orange, molybdate).
Molybdenum metal, kgs., 90%, powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .95 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%..lb. .61 - —
l.c.l., works, basis 100%...lb. .64 - —
Monochlorobenzene, dms., c.l., works, frt. equalized with comp. points..lb. .06 - .06¼
l.c.l., works.....lb. .06½ - .07⅛
tanks, works, frt. equalized with comp. points..lb. .05½ - —
smaller containers, works.. lb. .09 - .10
Monoethanolamine, dms., c.l., frt. alld. E..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Monoethylamine, dms., c.l., wks., basis 100%..lb. .17 - —
l.c.l., works, basis 100%..lb. .18 - —
tanks, 100% basis, works..lb. .15 - —
Monomethylamine, anhydrous, cyl., works, frt. alld. E. of Miss. 100% basis..lb. .32½ - —
solution, dms., works, frt. alld. E. of Miss., 100% basis. lb. .37 - .43½
tanks, same basis.....lb. .32 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs. .....oz. 8.80 - —
Hydrobromine, 5 ozs.....oz. 8.95 - —
cns., 25 ozs. .....oz. 8.70 - —
Hydrochloride, bots., 5 ozs..oz. 9.00 - —
cns., 25 ozs. .....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.75 - —
Morpholine, dms., l.c.l., works, lb. .67 - —
smaller containers, works...lb. .75 - —
Mullein leaves, cns.....lb. .12 - .13
Musk, nat., Tonquin grains, bots. oz.55.00 -60.00
synthetic, ambrette, cns., 100 lbs. or more..lb. 4.60 -12.00
25 lbs. .....lb. 4.70 -12.10
5 lbs. .....lb. 4.85 -12.30
ketone, cns., 100 lbs. or more. lb. 4.15 - 9.25
25 lbs. .....lb. 4.25 - 9.35
5 lbs. .....lb. 4.40 - 9.70
xylol, cns.....lb. 1.60 - 2.00
25 lbs. .....lb. 1.70 - 2.60
5 lbs. .....lb. 1.85 - 2.90
Muskroot, bls.....lb. No prices
Mustard seed, Calif., Brown, bgs. lb. .16 - .16½
yellow, bgs.....lb. .21 Nom.
Danish, yellow, bgs.....lb. .20½ - .21
Dutch, yellow, bgs.....lb. .22½ - .23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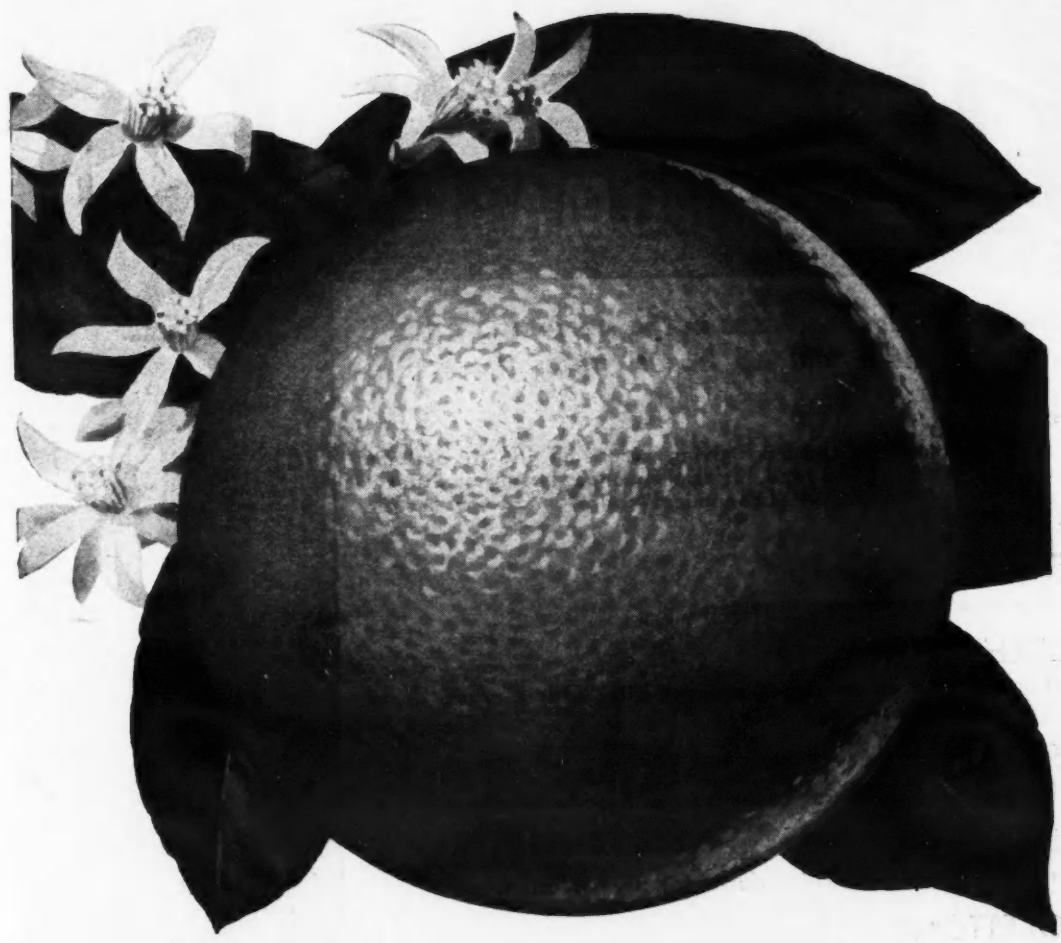
Mustard seed, Montana, brown, bgs..lb. .16 - .16½
yellow, bgs.....lb. .20 - .20½
futures, source.....lb. .17½- .18
oriental, bgs.....lb. .10½- .11
futures, f.o.b. source...lb. .08 - .08½
Washington, yellow, bgs.....lb. No prices
Myrobalans, whole, J1, U. S. ports, ex dock..ton.41.00 -45.00
J2, same basis.....ton.41.00 -42.00

N

Naphtha painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, bgs., c.l., frt. equald..lb. — - —
bbls., c.l., same basis..lb. — - —
tanks, same basis.....lb. .035 - —
78°, bgs., c.l., same basis. lb. — - —
bbls., c.l., same basis..lb. .0410- —
tanks, same basis.....lb. .0375- —
refined, balls, flakes, bbls., wholesalers and jobbers, c.l., works..lb. .09½- —
50-lb. cs., same basis....lb. .09¾- —
1-lb. pkgs., same basis..lb. .11 - —
Neocinchophen, USP, dms., works. lb. 7.00 - 7.10
Nepheline syenite, glass grade, 24 mesh, bulk, Rochester, N. Y..ton.13.75 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.17.25 - —
Nepheline syenite in bgs. is $2 per ton higher than bulk.
Narolin, crys., cns.....lb. 1.70 - 1.95
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .39 - —
Chloride, bbls.....lb. .20 - —
Cyanide, bots., dms.....lb. No stocks
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .14 - .14½
Nicotinamide, USP, dms., works, kilo.10.50 -10.80
Nicotine sulphate, 40%, dms., 50 lbs., to dealers, frt. allowed over 50 lbs..lb. .988 - —
tins, 10 lbs.....lb. 1.105 - —
Nikethamide, bots., cbys.....lb. 6.50 - 7.50
Nitercake, bulk, works.....ton.20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l. lb. .08 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ¼ sec., 30-35 cps., bbls., works, dry weight..lb. .26 - —
5-6, 40-60 cps., same basis. lb. .27 - —
Ester-soluble, ¼, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .28 - —
5-6, 15-20 cps. and higher, bbls., works, dry weight. lb. .25 - —
Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.
Nitroethane, dms., works.....lb. .25 - —
Nitrogen solut., tanks.....ton.108.21 - —
Prices adjusted to ammonia sulphate basis from ports, and anhydrous ammonia basis, Hopewell, Va., bulk, works.
Nitrogenous process tankage, bulk, works..unit-ton. 4.00 - 4.50
Sewage sludge, bulk, works.... unit-ton.3.80+.40- —
Nitromethane, dms., c.l., works. lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane 1, dms., works..lb. .25 - —
2, dms., works.....lb. .25 - —
Nutgalls, bgs.....lb. .44 - .50
Nutmegs, West Indian, bgs..lb. .82 - .83
futures .....lb. .80 - .81
Banda, bgs., futures.....lb. .90 - .91
Nux vomica, bls.....lb. .09½- .10
powder, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100° C-140° C, industrial grade, dms., c.l., G. 3..gal. .15½- —
l.c.l., G. 3.....gal. .29 - —
10 gals., G. 3.....gal. .35 - —
tanks, G. 3.....gal. .13 - —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.75 - 5.00
USP, bots. .....lb. 4.90 - —
sweet, ex., dms., cns.....lb. 1.10 - 1.45
Angelica root, bots.....lb.110.00 -275.00
Seed, bots. .....lb.115.00 -265.00
Anilin (see A).
Anise, USP, Chinese, dms...lb. 1.00 - 1.50
Russian, cns. .....lb. 3.50 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu, tanks .....lb. No prices
Bay, W. I., 50-55%, cns...lb. 1.35 - 1.70
Puerto Rican, 50-55%, cns..lb. 1.43 - 1.80
Bergamot, artif., cns.....lb. 2.25 - 5.50
natural, Italian, cns.....lb. 4.95 - 6.50
Birch (see Oil, sweet, birch).
Birchtar, crude, cns.....lb. 5.00 - 6.00
rectified, cns. .....lb. No stocks
Bois de rose, Brazil, cns....lb. 4.95 - 6.00
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.70 - 2.90
redistilled, USP IX, cns....lb. 2.85 - 3.20
Calamus, cns. .....lb.20.00 -30.00
Camphor, white, nat., cns....lb. .75 - 1.25
synthetic, dms. .....lb. .15 - .35
Cananga, native, cns.....lb. 8.00 -14.00
rectified, cns. .....lb.10.50 -17.00
Capsicum (see Capsicum, oleoresin).
Caraway, NF, cns.....lb. 5.50 - 6.75
Cardamom, bots. .....lb.22.50 -30.00
Cassia, USP, cns.....lb. 3.50 - 6.50
Castor, blown, ret. dms., c.l..lb. No prices
l.c.l. .....lb. No prices
cold-pressed, U.S.P., ret. dms., c.l..lb. .33½- —
l.c.l. .....lb. .34½- —
tanks .....lb. .32½- —
dehydrated, bodied, dms., c.l. lb. No prices
l.c.l. .....lb. .40½- —
tanks .....lb. .39 - —
unbodied, dms., c.l.....lb. No prices
l.c.l. .....lb. .39 - —
unbodied, tanks.....lb. .37½- —
No. 3, tech., dms., c.l.....lb. .33¼- —
l.c.l. .....lb. .34¼- —
tanks .....lb. .32¼- —
sulphonated, 50% (48% fat), dms., c.l..lb. No prices
l.c.l. .....lb. .18 - .22
75% (62-64% fat), dms., c.l. lb. No prices
l.c.l. .....lb. .26 - .28
Cedarleaf, USP, cns., dms..lb. 2.45 - 2.70
Cedarwood, USP, cns.....lb. .89 - 1.30
dms. .....lb. .85 - 1.20
Celeryseed, bots.....lb.17.00 -22.50
Oil, chaulmoogra, USP, cns., dms..lb. .56 - .85
Chinawood (see Oil, tung).
Cinnamon bark oil, bots.....lb.32.00 -60.00
leaf, dms. .....lb. 1.40 - 1.85
Citronella, Ceylon, cns.....lb. 2.25 - 2.75
Java, cns. .....lb. 4.75 - —
Clove, USP, cns.....lb. 1.50 - 1.85
Coconut, Ceylon type, tankcars. lb. .21 - —
tankcars, Pac. Coast.....lb. .20¼- —
refined, Cochin type.....lb. .25¼- —
Cod, Newfoundland, dms....gal. No prices
tanks .....gal. No prices
Codliver, USP, bbls., dms..gal. 2.60 - 3.70
Coriander, bots. .....lb.17.50 -22.50
Corn, crude, tanks, works..lb. .31½- .32
refined, tanks, works.....lb. .36 - —
foots, acid, 95%, tanks, dlvd. E..lb. .16 Nom.
raw, 50%, tanks, dlvd. E.lb. .08 Nom.
Cottonseed, crude, tanks, works (see Cottonseed Oil market report).
deodorized, winterized, salad, dms., c.l..lb. .36¼ Nom.
l.c.l. .....lb. .36¾ Nom.
tankcars .....lb. .35 Nom.
foots, acid 95%, tanks, dlvd. E..lb. .16 Nom.
raw, 50%, tanks, dlvd. E. lb. .08 Nom.
Creosote (see C).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, cns. .....lb. 8.00 -13.00
Crude (see Petroleum, crude)
Cumin, bots. .....lb. 8.50 -22.00
Cypress, bots. .....lb.12.00 -16.00
Degras (see D).
Dillseed, bots. .....lb. 6.50 - 7.00
Dillweed, bots. .....lb. 4.50 - 5.25
Dip (see D).
Erigeron, cns.....lb. 2.25 - 2.40
Oil, eucalyptus, USP, rect., 80-90%, cns..lb. 1.18 - 1.45
70-80%, cns. .....lb. 1.05 - 1.40
Fennel, sweet, cns.....lb. 3.75 - 4.55
Fir, Canada, cns.....lb. 2.50 - 2.80
Fishliver, dms., less than 40,000 A units per gram.... per million units. .30 - —
for each 1,000 additional A units up to 200,000 grams. per million units. .001 - —
200,000 or more A units..... per million units. .46 - —
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb.15.50 -28.00
Bourbon, cns.....lb.14.00 -22.00
Russian, cns. .....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb.10.50 -14.00
Grapefruit, Florida, cns.....lb. 2.20 - 2.45
California, bots., cns.....lb. 1.78 - 2.50
Grease, common, No. 1, bbls., c.l..lb. No prices
extra, No. 1, bbls., c.l.....lb. No prices
Winter strained, bbls., c.l..lb. No prices
prime, burning, bbls., c.l..lb. No prices
inedible, bbls., c.l.....lb. No prices
Guaiacwood, cns.....lb. 2.50 - 4.00
Hemlock, cns.....lb. 2.35 - 2.75
Hegring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, dom., bots....lb. 6.00 -13.50
imported, USP.....lb.14.00 -15.00
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns.....lb. .65 - 1.00
Lard oil (see Oil, grease).
Laurel, bots. .....lb. No prices
Lavandin, cns.....lb. 3.80 - 5.00
Oil, lavender flowers, French, 38%- 42% ester, cns..lb.10.00 -17.00
30-32% ester.....lb. 6.00 -10.00
Russian, cns.....lb.12.50 - —
Spike, Spanish, pure, cns....lb. 2.05 - 3.10
tech., cns. .....lb. 1.05 - 2.50
Lemon, USP, Calif., cns....lb. 3.25 - 3.50
Messina, cns. ..... 3.40 - 4.00
Terpeneless, bots. .....lb.40.00 -50.00
Lemongrass, cns., dms.....lb. 3.40 - 4.45
Lignaloe seed, Mexican, cns..lb. No stocks
Wood, Mexican, cns.....lb. 4.50 - 5.75
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns. lb. 5.50 - 7.20
West Indian, cns.....lb. 5.75 - 7.50
expressed, West Indian, cns.lb.13.00 -15.00
Linseed, raw, dms., c.l.....lb. .3660 Nom.
l.c.l. .....lb. .3720- .3780
tankcars .....lb. .3560 Nom.
tankwagon .....lb. .3580 Nom.
Boiled linseed oil, .004 higher than raw.
Linseed, replacement, dms., c.l lb. .35 - —
l.c.l. .....lb. .3540- .3580
tankcars .....lb. .34 - —
Lubricating, at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-4 pour, tanks..gal. .07¼- .11
red, 200-900 vis., 4-6½ pour, plus tanks..gal. .07¼- .11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks. gal. .23 - .25
neutral, 300 vis., No. 3, col., 0.10 pour, tanks. gal. .18½- .19
200-300 vis., No. 3, col., 15-25 pour, tanks.gal. .16 - .18
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .26 - .31



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Oil, lubricating, at refinery, ex tax, Group 3, cylinder oils, 600-680 flash, tanks, gal. .17 - .19
600-650 steam, refd., tanks..gal. .15½- .20
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .26 - .36
200 vis., 25 pour, tanks, gal. .28 - .38
Mace, dist., cns., dms.....lb. 8.50 - 9.50
Mineral, white (see Oil, white).
Mandarin, Brazilian, cns....lb. 5.25 -10.00
Menhaden, crude, tanks, Balto, lb. .18½ Nom.
refined, alkali, dms., c.l..lb. .30½- —
kettle-bodied, dms., t.c.l..lb. .32 - —
light-pressed, dms., l.c.l..lb. .29 - —
tanks .....lb. .28 - —
Mustard, artif., USP, cns....lb. 1.45 - 1.65
Seed, exp., dms., c.l.....lb. .30 - —
Neatsfoot, 15°, ret. dms., wks, lb. .52 - —
20°, ret. dms., works.....lb. .50 - —
30°, ret. dms., works.....lb. .49 - —
Neroli, French, bots.....lb.150.00 -390.00
Haitian, bots. .....lb.180.00 -200.00
Nutmeg, cns. .....lb. 8.50 - 9.50
Ocotea cymbarum, dms.....lb. .85 - 1.00
Oiticica, liquid, tankcars....lb. .34¼- —
dms., carlots .....lb. .35½- —
l.c.l. .....lb. .35⅝- —
Oleo, extra, tcs., Chicago....lb. .30 Nom.
Olibanum, bots. .....lb. 5.00 - 6.05
extra fine .....lb. 6.25 -10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., 3⅝-½% f.f.a., dms., extra, works..gal. No prices
imported, dms. .....gal. 7.00 - 7.25
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices
sulphonated, 50% (40% fat), dms., c.l..lb. No stocks
l.c.l. .....lb. No stocks

Oil, olive, sulphonated, 80% (68% fat), dms., c.l..lb. No stocks
l.c.l. .....lb. No stocks
85% (68% fat), dms., c.l.lb. No stocks
l.c.l. .....lb. No stocks
Orange, sweet, dist., cs.....lb. 1.25 - 1.75
expressed, USP, Brazilian, cns...lb. 1.45 - 2.00
Calif., cns. .....lb. 1.60 - 2.10
Florida, cns., dms.....lb. 1.45 - 1.85
Messina, coppers.....lb. 4.50 - 4.75
West Indian, cns.....lb. 2.25 - 2.75
sesquiterpeneless, bots.....lb.100.00 -135.00
Origanum, Spanish, cs.....lb. 2.40 - 3.25
Palm, Niger, dms.....lb. No prices
Palmarosa, cns. .....lb. 8.50 - 9.50
Palmkernel, crude, bulk, c.i.f., N. Y..lb. No prices
Paraffin, 300° flash, 100-110 vis., tanks, G.3..gal. .05¾- —
320° flash, 60-70 vis., tanks, G.3..gal. .05¼- —
350° flash, 70-80 @ 100 vis., 0/10 pour, G.3..gal. .08 - —
80-85 vis., 0/10 pour, bbls. extra, Ind. ref'y..gal. .12 - —
100-110 vis., 0/10 pour, same basis..gal. .08½- —
10/25 pour, same basis.gal. .08¾- —
Patchouli, imported, cns.....lb.48.00 -98.00
Peanut, crude, tanks, works..lb. .32½- .33
foots, acid, 95%, tanks, dlvd, E..lb. .16 Nom.
raw, 50%, tanks, dlvd., E.lb. .08 Nom.
refined, dms. .....lb. .36¼- .36⅝
Pennyroyal, dom., dms., cns lb. 3.85 - 3.95
import, cns. .....lb. 4.25 - 5.00
Peppermint, natural, dms...lb. 7.75 - 8.25
redist., USP, dms.....lb. 8.30 - 8.75
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns...lb. 3.45 - 4.60
Pimento, berry, dms.....lb. 7.75 - 8.00
Leaf, cns. .....lb. 2.75 - 5.75
Pine, destructively dist., dms., c.l., extra, wks., South. gal. .67 - —
l.c.l., same basis.....gal. .68 - —
tanks, wks., South.....gal. .61 - —
steam-dist., dms., divd. E.gal. .80 - —
Pineneedle, cns.....lb. 3.00 - 3.65
Putty, petroleum, heavy, dms. gal. .18 - —
tankwagon .....gal. .13½- —
light, dms. .....gal. .16½- —
tankwagon .....gal. .12½- —
Rapeseed, dms., c.l.....lb. .32 Nom.
Red, single dist., ret. dms...lb. .29¾- .30¾
tanks, dlvd., E. of Rockies, lb. .31½- —
double dist., ret. dms.....lb. .32¾- .33¾
Rose, natural, coppers.....oz.31.25 -40.00
Rosemary, Spanish, tech., cns., dms..lb. 1.10 - 1.50
USP, cns., dms.....lb. 1.40 - 1.75
Rosin, 1st rectified, dms....gal. .66 - —
2d rectified, dms.... .....gal. .68 - —
3d rectified, dms.....gal. .72 - —
Rue, bots. .....lb. 4.75 - 5.25
Sage, Dalmatian, cns.....lb. 5.75 - 6.50
Spanish, cns. .....lb. 2.25 - 3.50
Sandalwood, NF, Mysore, cns., case lots..lb.16.00 -21.00
Sardine, crude, tanks, Pac. coast..lb. .23½ Nom.
refined, alkali, dms., l.c.l..lb. .30½- —
kettle-bodied, dms., l.c.l..lb. .32 - —
light-pressed, dms., l.c.l..lb. .29 - —
tanks .....lb. .28 - —
Sassafras, artificial .....lb. .80 - 1.10
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms..lb. 1.95 - 2.30
Savin, cns. .....lb. 6.25 -16.00
Savory, cns. .....lb. 8.00 - —
Seal, No. 1, tanks, U.S. ports. lb. No prices
Sesame, tanks .....lb. No prices

Oil, shingle stain, bbls., c.l., wks. gal. .2185- —
l.c.l., works .....gal. .25 - .29
tanks, works .....gal. .15 - .16
Snakeroot, Canada, cns.....lb.27.00 - —
Soybean, clarified, dms., c.l..lb. .2913- —
l.c.l. .....lb. .2950- —
tanks .....lb. .2813- —
crude, tankcars, mills.....lb. .2813- —
tankcars .....lb. .2983- —
foots, acid, 95%, tanks, dlvd. E..lb. .16 Nom.
raw, 50%, tanks, dlvd. E..lb. .08 Nom.
Spearmint, dms. .....lb.12.25 -15.00
Sperm, bleached, 38°, dms...lb. No prices
natural, 45°, dms.....lb. No prices
Spruce, cns., dms.....lb. 2.35 - 2.75
Sunflower, imported, refined, tanks..lb. No prices
semi-refined, tanks.....lb. No prices
Sweet birch, North, cns....lb. 5.00 - 7.25
South, cns. .....lb. 2.50 - 3.25
Tall, crude, dms., c.l., works, ton. No prices
l.c.l., works.....ton. No prices
tanks, works.....ton. No prices
Refined, dms., c.l., works..lb. .08½- .09½
l.c.l., works.....lb. .09 - .10
tanks, works.....lb. .07½- .08½
Tallow, acidless, dms., c.l., Chicago..lb. .27 - —
Tansy, cns. .....lb.12.00 - —
Tar, pine, crude, dms., extra, c.l., works, South..gal. .36½- —
l.c.l., works, South....gal. .38½- —
tanks, works, South....gal. .30½- —
rectified, USP, l.c.l. dms. extra, wks., South..gal. .57 - —
Tar acid (see T).
Thyme, red, NF, cns.....lb. 2.60 - 3.65
white, cns. .....lb. 2.85 - 3.75
technical, cns.....lb. .75 - .90
Tung, dms., c.l.....lb. .39 - .39½
l.c.l. .....lb. .40 - .40½
tankcars .....lb. .37¾- .38
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, USP, cns., dms..lb. .30 - .55
Vetiver, Bourbon, cns.....lb.34.00 -42.50
Haitian .....lb.29.50 -35.00
Whale, ref., natural, dms...lb. No stocks
Winter bleached, dms.....lb. No stocks
Wheat germ, dms.....gal.10.00 -13.50
White, mineral, tech., f.o.b., N. Y., 50-60 vis., dms., incl., c.l..gal. .42 - —
l.c.l. .....gal. .44 - .48
65-75 vis., dms., dms. incl., c.l..gal. .45 - —
l.c.l. .....gal. .47 - .52
JSP, 80/90 vis., dms., dms. incl., c.l..gal. .40 - —
l.c.l. .....gal. .51 - .56
125/135 vis., dms., dms. incl., c.l..gal. .61 - —
l.c.l. .....gal. .64 - .68
145/155 vis., dms., dms. incl., c.l..gal. .63 - —
l.c.l. .....gal. .66 - .70
175/185 vis., dms., dms. incl., c.l..gal. .66 - —
l.c.l. .....gal. .68 - .73
200/210 vis., dms., dms. incl., c.l..gal. .70 - —
l.c.l. .....gal. .73 - .77
335/345 vis., dms., dms. incl., c.l..gal. .78 - —
l.c.l. .....gal. .80 - .85
55, 70 and 85 vis., non-ret. dms., San Francisco.gal. .45 - —
smaller lots, same basis. gal. .47 - .50
100 vis., non-ret. dms., 65 dms., San Francisco. gal. .56½- —
smaller lots, same basis. gal. .57½- .61½
145 vis., non-ret. dms., 65 dms., San Francisco.gal. .64 - —
smaller lots, same basis. gal. .66 - .68
180 vis., non-ret. dms., 65 dms., San Francisco.gal. .69½- —
smaller lots, same basis. gal. .71½- .74½
240 vis., non-ret. dms., 65 dms., San Francisco.gal. .81 - —
smaller lots, same basis. gal. .83 - .86
Wintergreen, natural, North, cns..lb. 5.50 -17.25
South, cns. .....lb. 3.65 - 6.00
Synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns..... .....lb. 5.00 - 6.75
Wormseed, cns. .....lb. 5.55 - 6.75
Ylang-ylang, Bourbon, extra, bots..lb.16.50 -24.00
first, bots.....lb.12.50 -17.00
second, bots.....lb. 7.50 14.00
third, bots.....lb. 5.00 - 9.00
Oleostearin, loose, Chicago....lb. No prices
Olivine, aggregate, c.l., mines.. ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works..ton.10.00 - —
paper bgs., c.l., works..ton.12.00 - —
lumps, paper bgs., c.l., works. ton. 7.00 - —
Opium, USP, cns.....lb.21.30 -21.55
gran. .....lb.22.70 -29.95
powd. .....lb.22.70 -29.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies. lb. .65 - .95
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .24 - —

Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c.; Ft. Worth, Tex., 1½c.; El Paso, Tex., 2c.; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Orange, dinitroaniliin toner...lb. 1.15 - —
Molybdate, bbls. .....lb. .37½- —
Orthonitroaniliin toner, bbls., kgs., works..lb. .86 - 1.05
Persian, bbls. .....lb. .30 - .45
Orange mineral, American, bbls., 5 tons, dlvd. Ala., Cal., Fla., Ga., La., Miss., Tex. and W. of Cascade Mts. in Ore. and Wash..lb. .18½- —
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash..lb. .19 - —
Mont., Wyo., Colo., N. Mex..lb. .18¾- —
other points.....lb. .18¼- —
smaller lots, Ala., etc...lb. .19 - —
Ariz., etc.....lb. .19½- —
Colo., Mont., N. M., Wyo..lb. .19¼- —
other points.....lb. .18¾- —

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The new odor successes in the perfume and cosmetic field will be based upon these:

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Basis for Lilacs to create richer, stronger Lilac Odor. Add up to 10% Aldehyde FK.

RESEDALIA
A chemical surprisingly true to the odor of Reseda Mignonette.

TUBEROL
Basis for Tuberose odors and perfumes for creams, lotions, etc.

VIOLETTONE
A Ketone basis with Patchouly note for Violet Odors.

ETHYLENE GLYCOL ACETAL OF PHENYL ACETALDEHYDE
Softener and homogenizer for all types of Floral Odors.

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ESTABLISHED 1828 GD AROMATICS DIVISION

Orange flowers, bls.	lb.	.46	- .48
Orange peel, bitter, Haitian, bls.	lb.	.14	- .15
Sweet, bls.	lb.	.13½	- .14
Oregano, Italian, bgs.	lb.	.27	- .27½
Portuguese, bgs.	lb.	.24½	- .25½
Orris root, Florentine, bls.	lb.	.40	- .41
Verona, bls.	lb.	.35	- .36
Portuguese, bls.	lb.	.30	- .31
Orthoamyiphenol, dms., works.	lb.	.25	- —
Orthoanisidin, bbls.	lb.	.70	- —
Orthochloroanilin, dms.	lb.	.60	- —
Orthochlorophenol, dms.	lb.	.25	- .27
Orthocresol, 30.4° C., min., M.P., dms., c.l., works.	lb.	.17½	- .22
l.c.l., works.	lb.	.18	- .18½
29° C., min., M.P., dms., c.l., works.	lb.	.16½	- .17
l.c.l., works.	lb.	.17	- .17½
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies.	lb.	.07½	- .08
l.c.l., same basis.	lb.	.08½	- .10
tanks, same basis.	lb.	.07	- —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.			
Orthonitroanilin, dms.	lb.	.48	- .55
Orthonitrochlorobenzene, dms.	lb.	.15	- .18
Orthonitrodiphenyl, tech., grade A., dms., c.l., works.	lb.	.10	- —
l.c.l., works.	lb.	.11	- —
grade B, dms., c.l., works.	lb.	.06	- —
l.c.l., works.	lb.	.07	- —
Orthonitroparachlorophenol, cns.	lb.	.75	- —
Orthonitrotoluene, dms.	lb.	.08	- .09
Orthophenetidin, dms.	lb.	.90	- —
Orthotoluidin, dms.	lb.	.18	- .19
Osage orange crystals, bbls.	lb.	.28	- —
extract, No. 1, bbls.	lb.	.14	- —
Ouabaine, USP, bots.	gram	3.00	- 4.00
Oxyquinolin sulphate, cns., 100 lbs., works.	lb.	6.40	- —
small lots, works.	lb.	6.85	- 7.40

P

Papain, powd., cs.	lb.	6.50	- 6.75
Papaverine, natural or synthetic, hydrochloride, NF, cns., 1,000-oz. lots.	oz.	7.00	- —
smaller lots.	oz.	7.25	- 7.60
Sulphate, cns.	oz.	7.10	- 7.35
Paprika, Chilean, bgs.	lb.	.37½	- .38
Portuguese, bgs.	lb.	.43	- .45
Spanish, bgs.	lb.	.51	- .53
Para-anisidin, dms., works.	lb.	.75	- —
Parachlorophenol, dms., c.l., works,	lb.	.24	- —
l.c.l., same basis.	lb.	.25	- .27
Paracresol, bots., works.	lb.	.41	- —
Paracymene, dms., c.l., works.	lb.	.1595	- —
l.c.l., same basis.	lb.	.1645	- —
tanks, same basis.	lb.	.1545	- —
Paradichlorobenzene, dms., c.l., works.	lb.	.12½	- —
l.c.l., same basis.	lb.	.14	- —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery.	lb.	.06	- .06¼
fully ref'd slabs, loose, 117-119 ASTM, c.l., refinery.	lb.	.05	- —
123-125 ASTM, refinery.	lb.	.0610	- .0645
125-127 ASTM, refinery.	lb.	.0610	- .0655
128-130 ASTM, refinery.	lb.	.0640	- .0675
130-132 ASTM, refinery.	lb.	.0665	- —
133-135 ASTM, refinery.	lb.	.0695	- .0710
135-137 ASTM, refinery.	lb.	.0720	- —
Prices in bags 4/10c. lb. higher.			
Paraformaldehyde, dms., 1,000 lbs. or more, works.	lb.	.21	- —
smaller lots, works.	lb.	.22	- —
Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., wks.	lb.	.13	- —
10-gal. dms., works.	lb.	.16	- —
USP, cbys.	lb.	.49	- .62
Paranitroanilin, kgs., works.	lb.	.41	- .43
Paranitrochlorobenzene, kgs., wks.	lb.	.15	- —
Paranitrophenol, kgs.	lb.	.35	- —
Paranitrotoluene, kgs., works.	lb.	.30	- —
Paraphenylenediamine, tech., kgs.	lb.	1.25	- —
Paratoluenesulphonamide, bbls.	lb.	.70	- —
Paratoluidin, bbls., works.	lb.	.44	- —
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. East.	lb.	.31	- —
l.c.l., same basis.	lb.	.32	- .33
Passion flower herb, bls.	lb.	.48	- .50
Patchouli leaves, bls.	lb.	.38	- .40
Pectin, bbls.	lb.	1.25	- —
Penicillin, amorph., calcium, bulk, 1,000,000,000 units.			
100,000 units.		.21	- —
sodium, bots. 100,000 units.		.27	- —
cryst., sodium, bots. 100,000 units.		.31	- —
bulk, 1,000,000,000 units.			
100,000 units.		.25	- —
Pennyroyal leaves, bls.	lb.	.24	- .25
Pentachlorophenol, dms., works,	lb.	.20	- .25
Pentaerythritol, tech., bbls., c.l., works.	lb.	.32	- —
l.c.l., works.	lb.	.34	- .36
Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3,	gal.	.11	- —
l.c.l., dms., Group 3.	gal.	.19	- —
tanks, Group 3.	gal.	.07½	- .07¾
28°-38° C., laboratory grade, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3.	gal.	.16	- —
l.c.l., Group 3.	gal.	.29	- —
Pepper, black, bgs.	lb.	.55	- .56
futures, bgs., Feb.	lb.	.53	- .54
Red, capsicum, Carolina longs, new crop, bgs., shipment point.	lb.	.50	- .55
sports, old crop, bgs.	lb.	No stocks	
Louisiana, longs, new crop, bgs., shipment point.	lb.	.30	- .31
sports, bgs.	lb.	No stocks	
Niger, bgs.	lb.	.45	- .46
Chillies, Haitian, bgs.	lb.	.56	- .57
Mexican, long.	lb.	.50	- .51
White, bgs.	lb.	.58	- .59
Peppermint, dom., USP, bls.	lb.	1.00	- 1.05
imported, USP, bls.	lb.	.96	- 1.00
Perchloroethylene dms., c.l.,			
Zone 1, works, frt. alld.	lb.	.06¼	- —
Zone 2, same basis.	lb.	.09¾	- —
Zone 3, same basis.	lb.	.10¼	- —
Zone 4, same basis.	lb.	.10¼	- —
l.c.l., Zone 1, same basis.	lb.	.09¾	- —
Zone 2, same basis.	lb.	.10¼	- —
Zone 3, same basis.	lb.	.10¾	- —
Zone 4, same basis.	lb.	.10¾	- —

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Peru balsam, dms.	lb.	1.25	- 1.30
Petrolatum, tech., dark, bbls., c.l., Group 3.	lb.	.021	- —
golden topaz, bbls., c.l.	lb.	.032	- —
l.c.l.	lb.	.036	- —
red, veterinarian, bbls., c.l.	lb.	.024	- —
l.c.l.	lb.	.028	- —
Petrolatum, USP, amber, nonret. dms., c.l.	lb.	.05	- —
l.c.l.	lb.	.06	- —
extra, amber, dms., c.l.	lb.	.05¾	- —
l.c.l.	lb.	.06¼	- —
cream, c.l., dms.	lb.	.07	- —
l.c.l.	lb.	.08½	- —
white, lily, dms., c.l.	lb.	.07¼	- —
l.c.l.	lb.	.08¾	- —
snow, dms., c.l.	lb.	.08¼	- —
l.c.l.	lb.	.09¾	- —
soft, dms., c.l.	lb.	.07¼	- —
l.c.l.	lb.	.08¼	- —
yellow, soft, dms., c.l.	lb.	.05½	- —
l.c.l.	lb.	.06½	- —
Petroleum, crude, bulk, at wells, California, heavy grades	bbl.	1.28	- 1.80
Illinois	bbl.	1.60	- 1.82
Kentucky, Union County	bbl.	1.72	- 1.77
Louisiana-Arkansas	bbl.	1.19	- 1.98
Montana	bbl.	1.30	- 1.79
Oklahoma-Kansas	bbl.	1.28	- 1.70
Pennsylvania, lower field	bbl.	3.30	- 3.55
Upper field	bbl.	1.76	- 3.30
Texas East	bbl.	1.30	- 1.70
Gulf coast	bbl.	1.38	- 1.81
North, North-Central	bbl.	1.28	- 1.70
Panhandle	bbl.	1.28	- 1.70
West	bbl.	1.15	- 1.57
Wyoming	bbl.	.95	- 1.70
Ether, laboratory grade, 30°-60° C., 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3.	gal.	.16	- —
l.c.l., same basis.	gal.	.29	- —
35°-60° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
Petroleum ether, lab. grd., 30°-60°, dms., c.l., Group 3.	gal.	.16	- —
l.c.l., same basis.	gal.	.29	- —
40°-75° C, 10-gal. cns., dlvd. E.	gal.	.55	- —
dms., c.l., Group 3.	gal.	.16	- —
l.c.l., same basis.	gal.	.29	- —
Fuel oil, furnace, tanks, at refinery, Arkansas, No. 2.	gal.	.04½	- —
No. 3.	gal.	.04¾	- —
Bayonne, No. 2, tanks.	gal.	.0640	- —
California, heavy	bbl.	1.30	- 1.35
light	bbl.	1.50	- 1.55
diesel	gal.	.0675	- .0725
Group 3, No. 1.	gal.	.04¾	- .04⅞
No. 2, straw.	gal.	.04½	- .04⅝
No. 3.	gal.	.04	- .04½
Oklahoma, No. 1, p.w.	gal.	.04¾	- .05½
No. 1, straw.	gal.	.04¾	- —
No. 2, straw.	gal.	.04½	- .04⅝
No. 3.	gal.	.04	- .04½
No. 6.	bbl.	1.15	- 1.35
range	gal.	.04½	- —
Pennsylvania, No. 1.	lb.	.06¾	- .07
No. 2	gal	.08¼	- .08¾
No. 3	gal	.08½	- .08¾
38-40 gravity	gal	.06¼	- —
Bunker C (No. 6), tanks, Albany, N. Y.	bbl.	2.02	- —
Baltimore, Md.	bbl.	1.82	- —
Boston, Mass.	bbl.	2.06½	- —
Charleston, S. C.	bbl.	1.93	- —
Jacksonville, Fla.	bbl.	1.93	- —
New York, N. Y.	bbl.	2.02	- —
Norfolk, Va.	bbl.	1.93	- —
Philadelphia, Pa.	bbl.	2.02	- —
Portland, Me.	bbl.	2.06	- —
Providence, R. I.	bbl.	2.04	- —
Savannah, Ga.	bbl.	1.98	- —
Petroleum, lacquer, diluent, California, l.b.n. 200 e.p., tanks, dlvd. Los Angeles.	gal.	.11	- —
Seattle, Wash.	gal.	.12	- —
East Coast, N. J., N. Y., tanks, refinery.	gal.	.12½	- —
Group 3 benzol type, tanks.	gal.	.09¾	- .09¾
toluol type, tanks.	gal.	.09¾	- .09¾
San Francisco.	gal.	.11½	- —
Portland, Ore.	gal.	.12	- —
Mineral spirits, California, San Francisco, 170-200 b.r., tanks.	gal.	.11¾	- —
205-209 b.r., tanks.	gal.	.11¾	- —
244-248 b.d., tanks.	gal.	.11¾	- —
307-309 b.r., tanks.	gal.	.11	- —
312-402 b.r., tanks.	gal.	.10	- —
393-406 b.r., tanks.	gal.	.10	- —
East Coast, N. J., N. Y., tanks, refinery.	gal.	.11	- —
Group 3, tanks, refinery.	gal.	.07½	- —
Gulf coast, tanks.	gal.	.07¾	- —
tankwagon, Baltimore.	gal.	.14½	- —
Boston	gal.	.13	- —
Buffalo	gal.	.13½	- —
Camden, N. J.	gal.	.11¾	- —
Chicago	gal.	.140	- —
Detroit	gal.	.1710	- —
Kansas City, Mo.	gal.	.140	- —
Lancaster, Pa.	gal.	.12½	- —
Newark	gal.	.13	- —
New York	gal.	.13	- —
Philadelphia	gal.	.13	- —
Pittsburgh	gal.	.13½	- —
Providence	gal.	.15	- —
Rochester	gal.	.13½	- —
St. Louis	gal.	.140	- —
Syracuse	gal.	.15½	- —
Washington, D. C.	gal.	.14½	- —
Wilmington, Del.	gal.	.13	- —

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Petroleum, naphtha, cleaners, California, tanks, San Francisco..gal. .13 - —
East coast, N. J., N. Y., tanks, refinery..gal. .11 - —
Group 3, tanks, refinery..gal. .06½- —
tankwagon, Newark.....gal. .06½- —
Chicago .....gal. .14½-
Detroit .....gal. .15½-
New York.....gal. .13 - —
Philadelphia .....gal. .125 - —
St. Louis.....gal. .1670- —
high-solvency, No. 2, tanks, Paulsboro, N. J..gal. .19 - .20½
No. 30, tanks, same basis, gal. .17 - .22
No. 40, tanks, same basis, gal. .17½- .22
No. A-80, tanks, Carteret, N. J..gal. .21½- —
No. A-80, tanks, Chicago, Cincinnati, Detroit..gal. .24 Nom.
No. B-90, tanks, all shipping points..gal. .24½- —
No. B-80, tanks, Carteret, N. J..gal. .22 - —
V.M.&P., at refinery, California, 46.5, 264 i.b.p., 380 e.p., tanks, El Segundo..gal. .12 - —
Richmond .....gal. .12½- —
Portland, Ore., Seattle, Wash..gal. .19 - —
64-77, 199 i.b.p., 310 e.p., Los Angeles.....gal. .11 - —
San Francisco....gal. .11½- —
Portland, Seattle.gal. .13 - —
E. Coast, N. J., N. Y., tanks, refinery..gal. .12 - —

Petroleum naphtha, V.M.&P., ast ref'y, Group 3, tanks..gal. .061 - .08125
Gulf Coast (divd. New Orleans), tanks..gal. .09⅝-
tankwagon, Boston.....gal. .14 - —
Chicago .....gal. .149 - —
Detroit .....gal. .168 - —
Milwaukee .....gal. .166 - —
Minneapolis .....gal. .164 - —
Newark .....gal. .13½- —
New York.....gal. .13 - —
Philadelphia .....gal. .13½- —
Pittsburgh .....gal. .14½- —
St. Louis.....gal. .169 - —
Solvent, rubber, at refinery, California, San Francisco tanks..gal. .11½- —
East Coast, N. J., N. Y., tanks..gal. .13 - —
Group 3, tanks.....gal. .09½- —
Stoddard (C.S. 6-83), at refinery:—
California (San Francisco). tanks..gal. .12 - —
East Coast, N. J., N. Y., Group 3, tanks.....gal. .07½- —
Pennsylvania, western, tanks..gal. .08½- —
tankwagon, Boston.....gal. .13 - —
Chicago .....gal. .14½-
Detroit .....gal. .13½-
Milwaukee .....gal. .15½-
Minneapolis .....gal. .1540-
Newark .....gal. .13½-
New York.....gal. .13 - —
Philadelphia .....gal. .11½-
Pittsburgh .....gal. .13 - —
St. Louis.....gal. .14½- —
Syracuse .....gal. .15½- —

Petroleum sulphonates, 63% sulphonic content, ret. dms., c.l., works..lb. .09¾- —
l.c.l., works.....lb. .09⅞- .10⅝
ta~ks, works.....lb. .09¼- —
50% sulphonic content, ret. dms., c.l., works..lb. .09¾- —
l.c.l., works.....lb. .09⅞- .10⅝
tanks, works.....lb. .09½- —
Phenobarbital, dms., 100 lbs..lb. 3.80 - —
Phenol, 85-92% (cresol, 8-10%), dms., c.l., wks., frt. equald. lb. .11 - .12½
l.c.l., same basis.....lb. .11⅝- .13
tanks, same basis.....lb. .10 - .10½
82-84% (cresol, 16-18%), dms., c.l., same basis..lb. .11 - .11¼
l.c.l., same basis.....lb. .11⅝- .12
tanks, same basis.....lb. .10 - .10½
USP, dms., c.l., same basis.lb. .11¼- .12
l.c.l., same basis.....lb. .12 - .12⅝
tanks, same basis.....lb. .10¼- .11⅛
Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb. .88 - —
smaller lots .....lb. .87 - .93
Yellow, fib. dms., 2,000 lbs..lb. .88 - —
smaller lots .....lb. .82 - .97
Phenothiazin, NF, fib. dms., ton lots or more, works..lb. .49 - —
smaller lots, works.....lb. .54 - —
Phenylacetaldehyde solution, 50%, bots..lb. 2.35 - 2.50
pure, bots. .....lb. 4.00 - 5.15
Phenylethyl acetate, dms.....lb. 2.15 - 3.00
Phenylethylphenyl acetate, bots. lb. 5.35 - 7.50
Phenylhydrazin base, CP, bots.lb. 4.55 - 4.70
Hydrochloride, CP, bots., works. lb. 7.10 - 7.25
commercial, kgs., works...lb. 1.75 -
Phloroglucinol, CP, fib. dms...lb. 13.75 -14.75
tech., fib. dms. .....lb. 12.00 -12.85

Phosgene, ton lots, works.....lb. .19 - —
Phosphate, deflucosinated (see under D).
Phosphate rock, Fla., land pebble unground, run-of-mine, washed, dried, 68%-68% b.p.l., bulk, car at mine, c.l..... long ton. 2.60 - —
70%-68%, same basis.. long ton. 3.00 - —
72%-70%, b.p.l., same basis..long ton. 3.60 - —
75%-74%, b.p.l., same basis..long ton. 4.00 - —
77%-76%, b.p.l., same basis..long ton. 5.60 - —
entirely pebble 50c. per ton higher than above prices.
finely ground, 65.5% b.p.l., 90% P_2O_5 minimum.. short ton. 3.15 - —
68%, b.p.l., basis 31% P_2O_5 minimum..short ton. 4.35 - —
70%, b.p.l., basis 32% P_2O_5 minimum..short ton. 3.70 - —
Tennessee, brown, unground, run-of-mine, 70-68% b.p.l., 5½% i. & a., same basis.. long ton. 5.50 - —
72%-70%, b.p.l., 5½% i. & a., same basis..long ton. 6.00 - —
29% P_2O_5, same basis..... long ton. 5.15 - —
30% P_2O_5, same basis long ton. 5.35 - —
finely ground, 31% P_2O_5, same basis..short ton. 5.45 - —
32% P_2O_5, same basis.... short ton. 5.70 - —
35% P_2O_5, same basis.... short ton. 6.20 - —
Phosphorus, red amorphous, cs lb. .33 - .35
tins, export.....lb .55 - —
yellow, cns. .....lb. .26 - .27
dms., c.l. .....lb. .22 - —
Oxychloride, dms., c.l.....lb. .10½- —
Pentoxide, dms., c.l., works.. lb. .12 - —
l.c.l., works.....lb. .13 - .14
Sesquisulphide, tons, cs.....lb. .26 - .27
Trichloride, dms., c.l.....lb. .10½- —
l.c.l. .....lb. .12½- .15
Phthalamide, bbls., works....lb. .35 - .40
kgs., works.....lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. alld. E. of Denver..lb. .14½- —
l.c.l., same basis.....lb. .15½- —
Pichi leaves, bgs.....lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots.....oz. 8.00 - —
Pilocarpine hydrochloride, USP. bots., vials..oz. 5.25 - 6.50
Nitrate, bots., vials.....oz. 5.15 - 6.25
Pimento, Jamaica, bgs.....lb. 24½- .25
Pinetar, retort, dms., extra, c.l., works, South..gal. .36½- —
l.c.l., works, dms., extra.. gal. .38½- —
l.c.l., whse., N.Y.C., dms extra..gal. .47⅝- —
tanks, works, South.....gal. .30½- —
Pinkroot, bls.....lb. 1.10 - 1.15
Piperazine hexahydrate, bots..lb. 16.00 -17.00
Pitch, burgundy (see B).
Coaltar, 160° m.p., bbls., c.l., works..ton. 20.90 - —
l.c.l., works .....ton. 24.20 - —
Cottonseed, dms., works....lb. .10½- .10⅝
Hardwood, paper bgs., works.. lb. .04 - —
Linseed, dms.....lb. No prices
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms.....100 lbs. 6.50 - —
stands, 200 lbs.....stand. 6.00 - —
Soybean, dms., works.....lb. .10¼- .10⅝
Plaster of paris (see Gypsum).
Podophyllin, dms.....lb. 13.50 -13.60
Pokeroot, bls. .....lb. .16 - .17
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb. .32 - —
20,000 lbs., frt. alld.....lb. .33 - —
smaller lots, frt. alld....lb. .34 - .36
Water-clear, polystyrene, 7c. per lb. less than plain colors
Pomegranate, root bark, bgs..lb. .75 - .76
Poppy flowers, bls.....lb. .60 - .70
Seed, Argentine, bgs.....lb. .20 Nom.
Danish, bgs.....lb. .20 Nom.
Danish, bgs.....lb. .22½- .23
Swedish, bgs.....lb. .22 Nom.
Turkish, bgs.....lb. .21 Nom.
Potash abietate .....lb. .08 - —
Acetate, USP, dms.....lb. .32 - .34
Bicarbonate, USP, gran., dms. lb. .20 - .22
powd., dms. .....lb. .22 - .24
Bichromate, bgs., c.l., works... lb. .10¾- —
l.c.l., works.....lb. .10⅝- .11¼
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works. ton. 200.00 - —
ton lots, works.....ton. 218.50 - —
less ton lots, works....ton. 223.50 - —
Bromide, USP, cryst., gran., 500-lb. bbls., dms..lb. .23 - .26
Carbonate, calcined, bbls., c.l., works..lb. .07¼- —
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .05¾- —
dms., l.c.l., same basis..lb. .06½- —
USP, gran., bbls., dms....lb. .15½- .18
powd., bbls., dms.....lb. .20 - .23
Caustic, low-chloride, 90% basis, flake, dms., c.l., works.. 100 lbs. 9.50 - —
l.c.l., works....100 lbs. 10.25 - —
liquid, dms., c.l., works..... 100 lbs. 8.75 - —
l.c.l., works....100 lbs. 9.50 - —
tanks, works.....100 lbs. 8.25 - —
solid .....100 lbs. 8.75 - —
l.c.l., works.....100 lbs. 9.50 - —
regular, flake, 88-92%, dms., c.l., works..lb. .07¼- —
l.c.l., works.....lb. .08¼- —
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .03375- —
l.c.l., same basis.....lb. .06¾- —
tanks, same basis.....lb. .03½- —
solid, 88-92%, dms., c.l., works..lb. .06¾- —
l.c.l. .....lb. .07½- —
Chromate, tech., bgs.....lb. .25 - .30
Chlorate, cryst., kgs., c.l., works. lb. .11 - .11¾
l.c.l., works .....lb. .119 - .130
powd., dms., kgs., c.l., works. lb. .0975- —
l.c.l., works .....lb. .119 - .130
export, 1 to 10 tons, kgs., ex whse..lb. .16 - .18
Chloride, tech., cryst., 98%, bgs., kgs..lb. .08 Nom.

Since the turn of the century Stauffer has supplied the rubber industry with rubbermakers' sulphurs and other products consumed in rubbermaking such as sulphur chloride, caustic soda, carbon bisulphide and carbon tetrachloride. It will pay you to specify Stauffer if you need quality chemicals in large quantities.

STAUFFER CHEMICALS

*Aluminum Sulphate	Chlorine	Rochelle Salts	Sulphur Chloride
Borax	Citric Acid	Silicon Tetrachloride	*Superphosphate
Boric Acid	*Copperas	Sodium Hydrosulphide	Tartar Emetic
Carbon Bisulphide	Cream of Tartar	Stripper, Textile	Tartaric Acid
Carbon Tetrachloride	Muriatic Acid	Sulphur	Titanium Tetrachloride
Caustic Soda	Nitric Acid	Sulphuric Acid	

(*Items marked with star are sold on West Coast only.)

Stauffer CHEMICALS SINCE 1885

STAUFFER CHEMICAL COMPANY

420 Lexington Avenue, New York 17, N. Y.
221 North LaSalle Street, Chicago 1, Illinois
424 Ohio Bldg., Akron 8, Ohio—Apopka, Fla.
555 South Flower Street, Los Angeles 13, Cal.
636 California Street, San Francisco 8, Cal.
North Portland, Oregon — Houston 2, Tex.

Potash citrate, USP, gran., bbls., dms..lb. .33½- .35½
powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, bbls. .....lb. .34 - .40
Glycerophosphate, 75% solution, cbys..lb. 2.80 - —
Guaiacol sulphonate, NF, dms. lb. 1.50 - 1.65
Hydroxide, USP, sticks, dms.lb. .34 - .36
Hypophosphite, cns. .....lb. .72 - .75
Iodide, dms.....lb. 1.75 - 1.78
Manure salt, 22% K_2O, Carlsbad, N. M..unit-ton. .20 - —
25% K_2O, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls..lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60-62-63% K_2O, bulk, ex vessel ports.... unit-ton. .53½- —
granular, 50-52% K_2O, ex vessel U. S. ports..unit-ton. .53½- —
Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M. are 11.2c. per unit of K_2O less than ex vessel price, basis Trona, Cal.; 8c. per unit of K_2O less than ex vessel price at Pacific coast ports.
Nitrate (see Saltpeter).
Oxalate, neutral, pure, gran., bbls., dms..lb. .37 - .50
tech. fine gran., bbls., dms. lb. .26 - .31
Perchlorate, kgs., works.....lb. .10 - .11
Permanganate, tech., dms., works..lb. .20¾- .21¼
USP, dms., works.....lb. .22½- .25
Persulphate, dms., c.l. works, lb .16 - —
l.c.l., same basis.....lb. .20 - —
Phosphate, tetrabasic, bbls., works..lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l. works. ton.200.00- —
l.c.l. .....100 lbs.15.25 - —
solution, 20° Be. ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works... 100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
22° Be, ret. dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., 5 or more, works.. 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.6° Be, ret. dms., c.l., works..100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Sulphate, NF, cryst.....lb. .30½- .33
powd., bbls. .....lb. .14½- .17
tech., dom., bulk,* basis 90-95% K_2O_4, min. 90%, ex vessel Atlantic or Gulf ports..ton.36.25 - —
West coast potash ports, same basis..ton.39.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide).
Xanthate, dms., c.l.....lb. .12 - —
Potash-magnesia sulphate, bulk, min., 40% K_2SO_4 18.50% MgO, ex vessel, ports...ton.26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .40 - .42
Potash-titanium oxalate, bbls., dms..lb. .45 - .50
Prickly ash bark, bls.....lb. .40 - .45
Berries, bgs. .....lb. .50 - .60
Prince's pine herb, bls.....lb. .50 - .65
Procaine hydrochloride, cns., 100-lb. lots..lb. 5.00 - —
Propane, industrial grade, tanks, Group 3..gal. .08¾- —
Propionaldehyde, dms., works..lb. .32 - —
10-gallon lots, works.....lb. .35 - —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls. .....lb. .60 - .65
Pumice, grd., fine, bgs., ton lots. lb. .03½- —
smaller lots .....lb. .03½- .04
coarse, 0½, 1, 1½, 2, 3, bgs., ton lots..lb. .03½- —
smaller lots .....lb. .03½- .04¼
Chl., ton lots .....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs. .....lb. .27 - .28
Purple lake (see Red).
Putty, com'l dms.....100 lbs. 2.15 - —
linseed oil, raw, dms..100 lbs. 5.00 - —
refined, dms. .....100 lbs. 5.50 - —
standard, dms.....100 lbs. 4.20 - —
Pyrethrum, concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins for 100 cc., dms., regular base, works..gal. 6.65 - —
odorless base, dms., works, gal. 6.75 - —
(30 to 1), base 2 grams pyrethrins, per 100 cc., bbls., works..gal.10.00 - —
Pyrethrum, flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .35¾- —
powder, 0.6% pyrethrins, bbls., works..lb. .26 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 -1.60
refd., 2°, ret. dms., same basis. lb. .35 - .35½
Pyridoxin, 100-gram lots....kilo.750.00 - —
Pyrites, Spanish, c.i.f. Atl. ports, long ton. 8.00 -10.00
Pyronate, dms., c.l., divd. E. of Miss..gal. .70 - —
l.c.l., works.....gal. .70 - —
tanks, divd., E. of Miss....gal. .60 - —
Pyronate prices W. of Miss. 3c. per gal. higher.
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, c.l., bulk, mines..ton.10.00 -11.50
325 mesh, same basis....ton.12.00 -13.50
No. 3, 200 mesh, c.l., mines.ton. 9.50 - —
325 mesh, same basis....ton.11.50 - —
Pyrophyllite in paper bags, $1.50 per ton extra.
Pyroxylin, scrap, opaque, amber, ca., works..lb. .17 - —
black, ca., works.....lb. .17 - —
gray, ca., works.....lb. .17 - —
mixed mottled, ca., wks.lb. .14 - —
white, China, ivory, ca., wks. lb. .17 - —
dense, ca., works.....lb. .17 - —
translucent, pastels, ca., works..lb. .17 - —
transparent, ca., works....lb. .19 - —
colors, ca., works.....lb. .17 - —
shavings, amber, ca., works, lb. .17 - —
mixed colors, ca., works..lb. .14 - —
white, ca., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .09 - .12
Quebracho extract, solid, 63% tannin, bgs., c.l., ex dock, in bond..lb. .07½- —
clarified, 64% tannin, bgs., c.l., same basis..lb. No prices
55% tannin, bbls., works. lb. No prices
tanks, works.....lb. No prices
ground, 70% tannin, bgs., c.l. lb. No prices
l.c.l. .....lb. No prices
Quebracho extract prices based on $20 freight and $1.00 insurance per long ton.
Queen of the meadow root, bgs. lb. .20 - .22
Quercitron crystals, bbls.....lb. .52 - —
Extract, No. 1, bbls.....lb. .12 - —
solid, bxs. .....lb. .23 - —
Quicksilver, flasks (76 lbs net) flask.87.00 -89.00
Quince seed, bgs. .....lb. .75 - .76
Quinidine, NF V, cryst., cns..oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. No stocks
Quinine, NF, cns., 100 ozs..oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Dihydrobromide, bots., 50 ozs. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Ethylcarbonate, USP, cns., 100 ozs..oz. No stocks
Ferrocyanide, cns., 100 ozs.oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Glycerophosphate, cns., 100 ozs. oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .89½- —
Quinine hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydriodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs.oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. .80½- —
Sulphocarbolate, cns., 100 ozs. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs..oz. No stocks
Quinine-urea hydrochloride, USP, cns..oz. No stocks
Quinoline, dms., c.l., works...lb. .13 - .60

R

R salt, dry, bbls.....lb. .72 - —
paste, dms.....lb. .57 - —
Raspberries, dried, bls.....lb. 2.30 - 2.35
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.10 - 1.90
Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.) (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher dlvd. Pacific Coast prices equaled with Chicago dlvd. Denver, Pueblo, Salt Lake City, Wichita.
Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb. 1.05 - 1.90
light shade, bbls., same basis..lb. .90 - 1.15
Red, cadmium, lithopone, maroon, bbls., same basis. lb. 1.15 - 1.35
medium shade, bbls., same basis..lb. 1.00 - 1.10
medium-light shade, bbls., same basis..lb. .95 - 1.05
Orange-red, bbls., same basis..lb. .95 - 1.00
Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse Los Angeles and San Francisco.
Carmine, No. 40, dms., bulk, works..lb. 5.50 - —
smaller lots, same basis..lb. 6.10 - —
Crocus martis (see Red, purple, oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works.....lb. 1.35 - —
Firetoner, dom., bbls., works.lb. .35 - .50
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .09 - .09¼
80-85%, bgs., same basis..lb. .07½- .07¾
imp., English, all shades..lb. .12 - —
Iron oxide, pure, bbls.....lb. .09½- .09¾
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., and E. St. Louis..lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. .065 - .094
Lacquer, maroon, bbls., works. lb. 1.25 - —
Lake C toner, alizarin, bbls., works..lb. 1.05 - —
Lithol toner, alizarin, lake, bbls., works..lb. .70 - —
Pink, bbls., works.....lb. .30 - .35
Rose lake, bbls., works....lb. .25 - .30
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.30 - —

ACCENT ON

Maintenance

HARD CHROME PLATING

One of the lessons in maintenance learned during the war years was reconditioning of worn tools by Hard Chrome Plating.

Pure metallic Chromium has a hardness value almost equal to that of the diamond. Other advantages are its resistance to abrasion, low coefficient of friction and seizure when in contact with other metals, and corrosion-resistance.

Now, tools may become worn but never worn out. A thin deposit of Chromium on worn surfaces not only rebuilds them to original dimensions but also reduces friction, resulting in less heat and longer life. Bits and drills do not freeze as quickly when plated with Chromium . . . files last longer. Chrome plated drills make the boring of certain plastics easier because less heat is developed.

During the war Hard Chrome was used to prolong the life of airplane engines. Its application has proved practical on cylinder walls, pistons, piston rings, valve guides and similar engine parts. This acceptance in the aeronautical field, with its high standards of precision and safety, points to the eventual universal use of Hard Chrome Plating for production and renovation plating in all phases of industry.

Mutual, the oldest name in Chromium Chemicals, has pioneered and developed the use of chromates in many and varied industrial fields . . . chrome tanning, anodizing aluminum, and corrosion inhibition to mention but a few. Our Research Department will be glad to cooperate with you on problems involving the use of Chromium Chemicals.

MUTUAL CHEMICAL COMPANY OF AMERICA • 270 MADISON AVE., NEW YORK 16, N. Y.

MUTUAL CHEMICAL CO. OF AMERICA NEW YORK N.Y.

Mutual

CHROMIUM CHEMICALS

Red, maroon, alizarin lake, 25%, kgs., works..lb. .40 - —
Cadmium, bbls., works.....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb higher.
Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.09 - —
smaller lots, works...lb. 2.23 - —
Metallic, bbls., works.....lb. .69 - —
Oxide (see Red, iron oxide).
Para toner, chlorinated, kgs.lb. .97 - —
concent., alizarin lake, kgs., works..lb. .80 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungstic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.60 - —
Scarlet ink toner, kgs., works, lb. .55 Nom.
Spanish oxide, grade 1, c.l., bbls..lb. .05½- .06
Toluidin toner, alizarin lake, kgs., works..lb 1.25 - —
MNPT maroon toner, kgs., works..lb. 5.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 15%, bgs., works...lb. .02¾- —
20%, bgs., works.....lb. .03 - —
25%, bgs., works.....lb. .03¼- —
30%, bgs., works.....lb. .03½- —
35%, bgs., works.....lb. .03¾- —
40%, bgs., works.....lb. .04 - —
Vermillion, Amer., bbls.....lb. .22¼- .40
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib, dms..lb. 2.48 - 2.50
Red saunders wood, grd., bbls.lb. .35 - —
Resorcinol, tech., dms., works.lb. .65 - —
USP, cryst., dms., works....lb. 1.70 - —
Rhatany root, bgs.....lb. .13 - .14
Rhubarb, whole, cs.....lb. 1.30 - 1.35
powd., bbls.....lb. 1.40 - 1.45
Riboflavin bots.....kilo. 200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option, lb. .19 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs., 1 ship't..lb. .34½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls.....lb. .82 - .84
Rosemary flowers, bls.....lb. 1.45 - 1.65
Leaves, French, bls.....lb. .13 - .14
Portuguese, bls.....lb. .02½- .03
Spanish, bls.....lb. .12½- .15
Rosin, gum (see Naval Stores, Protective Coatings market), Wood, B (resin), dms., c.l., works..100 lbs. 6.00 - —
FF, dms., c.l., works.100 lbs. 7.50 - —
G, H, I, dms., c.l., works.. 100 lbs. 8.80 - —
K, dms., c.l., works..100 lbs. 8.80 - —
M, dms., c.l., works..100 lbs. 8.85 - —
N, dms., c.l., works..100 lbs. 8.90 - —
WG, dms., c.l., works.100 lbs. 8.95 - —
WW, dms., c.l., works.100 lbs. 9.00 - —
X, dms., c.l., works..100 lbs. 9.10 - —
Rotenone, bbls., works.....lb. 12.05 -14.50
extract, liq., dms., works..... per unit. 1.15 - —
powder (see Cube root).
Rottenstone, bgs., c.l., mines.. ton. 25.50 - —
l.c.l., mines.....ton. 27.50 - —
Rue, bls.....lb. .45 - .46

S

Sabadilla seed, powd., bbls....lb. .35 - .70
activated, ground with lime, bbls..lb. .35 - .60
Saccharin, insoluble and soluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots.....lb. 1.40 - 1.60
Saffron, Mexican, bls.....lb. 1.60 - 1.65
Spanish, USP, tins.....lb. 28.00 -30.00
Safrol, cns.....lb. 1.10 - 1.15
Sage, Cyprus, good, bls.....lb. .22 - .23
futures.....lb. .19 - .19½
Dalmatian, bls.....lb. .34½- .35
Greek, ¼s.....lb. .29 - .30½
Palestine, bls.....lb. .16 - .16½
Spanish, bls.....lb. .15 - .15½
Syrian, bls.....lb. .25 - .25½
Sago flour, bgs.....lb. .07 - .07½
Salicin, bots., ¼ lbs.....lb. No stocks.
cns., 25 lbs.....lb. No stocks.
Saligenin, dms., works.....lb. 15.00 - 20.00
Salol, gran., bbls., kgs.....lb. .90 - —
fib, dms.....lb. .93 - .98
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton. 15.00 - —
l.c.l., bgs.....ton. 20.00 - —
vacuum, common, fine, bgs., c.l..ton. 14.00 - —
l.c.l., ...ton. 22.40 - —
Saltcake, dom., bulk, works.ton. 20.00 -26.00
(Chrome (see Chrome cake).
Saltpeter, dbl. ref., gran., bbls., 10 ton lots..100 lbs. 5.30 - —
smaller lots .....100 lbs. 5.35 - 5.90
powd., bbls., 10-20 ton lots.. 100 lbs. 5.20 - —
smaller lots .....100 lbs. 5.35 - 5.90
Sanguinarine nitrate, bots....oz. 5.75 - —
Santonin, cryst., powd., cns.kilo. 170.00 -185.00
Sapanin, No 1, cns.....lb. 1.75 - 1.80
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, decn., bls...lb. .45 - .50
Honduras, bls.....lb. .55 - .56
Mexican, bls.....lb. .60 - .65
Sassafras bark, grd., bls.....lb. .45 - .50
select, bls.....lb. .65 - .70
Savory, Spanish, bls.....lb. .21 - .21½
Saw palmetto berries, bgs....lb. .24 - .25
Scammony resin, lump, cns...lb. 1.30 - —
powd., cns.....lb. 1.35 - —
Root, bgs.....lb. .10 - .12½
Schaeffer's salt, bgs.....lb. .09 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .27½- —
smaller lots .....lb. .28¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .28½- —
smaller lots .....lb. .28¾- —
Selenium, pwd., cns., 10-lb. lots.. lb. 1.85 - —
cs., 1,000-lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.65 - 2.75
Senna leaf, Alex., half-leaf, bls. lb. .27 - .28
siftings, bgs.....lb. .24 - .25
Tinnevelly, No. 1, bls.....lb. .26 - .27
2, bls.....lb. .23 - .25
3, bls.....lb. .21 - .23
powd., bbls., bgs.....lb. .24 - .29
Pods, bls.....lb. .53 - .54
Serpentaria root, bls.....lb. No stocks
Shellac, bleached, benedry, bbls., 1,500-lb. lots..lb. .71 - —
Boston .....lb. .72 - —
Chicago .....lb. .73½- —
Pacific coast.....lb. .74½- —
refined, bbls., 1,500-lb. lot. lb. .78½- —
Boston .....lb. .79½- —
Chicago .....lb. .80 - —
Pacific coast.....lb. .82 - —
Benedry shellac sales of less than 1,500 lbs., at following additions to prices: (1) packed in bgs., ¾c. per lb.; (3) bbls., 1c. more; (3) kgs., 2c. more.
Shellac, superfine, 100 bgs., Boston, N. Y..lb. .72 - .79
Chicago .....lb. .73½- .79
Pacific coast.....lb. .75 - .76
TN, 100 bgs., Boston, N. Y.lb. .67 - .68
Chicago .....lb. .67½- .68½
Pacific coast.....lb. .70 - .71
Shellac in c., 2c. higher. Shellac sales 1 bg. or 1 ct., 3c. additional; 1 to 9 bgs or cs., 2c. more; 10 to 99 bgs., cs., 1c. more.
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works. ton. 17.00 - —
l.c.l. works.....ton. 20.00 - —
400 mesh, bgs., c.l., works. ton. 18.00 - —
l.c.l., works.....ton. 18.00 -20.00
wet-grd., 325 mesh, bgs., c.l., works..ton. 18.00 - —
l.c.l., works.....ton. 21.00 - —
400 mesh, bgs., c.l., works. ton. 20.00 - —
l.c.l., works.....ton. 25.00 -28.00
99%-99%, 325 mesh, bgs., c.l., works..ton. 20.00 - —
l.c.l., works.....ton. 21.50 -23.00
99%, 325 mesh, bgs., c.l., works..ton. 20.00 - —
l.c.l., works.....ton. 22.00 -25.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton. 15.50 - —
l.c.l., works.....ton. 18.00 - —
140 mesh, bgs., c.l., works.. ton. 11.00 - —
l.c.l., works.....ton. 14.00 - —
Silicon tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- .27
Silver bullion.....oz. .70¾- —
Cyanide, cns., 100 ozs.....oz. .75¾- —
Nitrate, bots., cns., 2,500-oz. lots..oz. .46¾- —
1,000-oz. lots.....oz. .47 - —
500-oz. lots.....oz. .47¼- —
single ounces.....oz. .47¾- —
Neucleinate, USP, bots., dms., 1,000-oz. lots..oz. .390 - —
Proteinate, USP, bots., dms., 1,000-oz. lots..oz. .325 - —
Simarubra bark, bls.....lb. .97 - .98
Skullcap, Eastern, bls.....lb. .65 Nom.
Western, bls.....lb. .30 - .35
Skunk cabbage root, bls.....lb. .45 - .50
Slate flour, bgs., c.l., works..ton. 11.00 -13.00
l.c.l., ex whse.....ton. 20.00 - —
Sloe berries, bgs.....lb. .40 - .41
Smalt, black, stms.....lb. .95 - .96
Blue, stms.....lb. .97 - .98½
Snakeroot, Canada, bls.....lb. .63 - .65
Soapbark, bls.....lb. .27 - .28
crushed, bls., bbls.....lb. .32 - .33
cut, imp., bbls.....lb. .32 - .35
powd., bbls.....lb. .30 - .31
Soda acetate, anhyd., dms., dlvd. lb. .08½- .10
cryst., NF, bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd....lb. .05½- .06
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60
Alkylbenzene sulphate, dms., works..lb. .18 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00
Antimoniate, bbls., dlvd.....lb. .16 - .16½
Arsenate, dealers, dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13¼- .13½
Arsenite, grey, dms., dealers, c.l., works..lb. 10¾- —
l.c.l., works.....lb. .13¼- .13½
Soda arsenite, gray ¼c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.
Ash, dense, 58%, bgs., c.l., 100 lbs. 1.28 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.63 - —
2 .....100 lbs. 2.79 - —
3 .....100 lbs. 3.13 - —
4 .....100 lbs. 3.73 - —
bbls., c.l., works, zone... 100 lbs. 1.68 - —
l.c.l., zone 1.....100 lbs. 3.08 - —
2 .....100 lbs. 3.18 - —
3 .....100 lbs. 3.53 - —
4 .....100 lbs. 4.13 - —
bulk, c.l., works...100 lbs. 1.08 - —
extra light, 58%, bgs., c.l.... 100 lbs. 1.30 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
light, 58%, bgs., c.l...100 lbs. 1.20 - —
l.c.l., dlvd., Zone 1..... 100 lbs. 2.55 - —
2 .....100 lbs. 2.70 - —
3 .....100 lbs. 3.05 - —
4 .....100 lbs. 3.65 - —
bbls., c.l., works..100 lbs. 1.60 - —
l.c.l., dlvd., Zone 1.. 100 lbs. 2.96 - —
2 .....100 lbs. 3.10 - —
3 .....100 lbs. 3.45 - —
4 .....100 lbs. 4.05 - —
bulk, c.l.....100 lbs. 1.00 - —
Prices f.o.b. stock points in zones indicated Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.
Soda ash sales zones are: (1) All States E. of Miss. R. and N. of south bound. of Ky. and Va.; also Ala., La., and Miss., S. of 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 96° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 96°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kans., Neb., W. of 96°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
Benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more..lb. .46 - —
smaller lots.....lb. .47 - .52
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l. .....100 lbs. 2.67½- 2.80
Bichromate, bgs., c.l., works.. lb. .08¼- —
l.c.l., works.....lb. .08¾- .09¾
Soda bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11¾- —
l.c.l., same basis.....lb. .12 - .14
kgs., same basis.....lb. .12½- .14
Soda bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.10
l.c.l., works.....100 lbs. 3.50 - 3.60
solut., 32°, bbls., c.l., works. 100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.55 - —
30°, bbls., c.l., works.100 lbs. 1.35 - —
l.c.l., works.....100 lbs. 1.60 - —
35° bbls., c.l., works.100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - —
40°, bbls., c.l., works.100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs., works..lb. .25 - —
dms., works .....lb. .25 - .26
Cacodylate, bots., dms.....lb. 8.50 -12.00
Carbonate (see Soda ash, Soda monohydrate, Soda sal).
Caustic, 2ake, powd., 76%, dms., c.l., works..100 lbs. 2.90 - 3.00
l.c.l., zone 1, dlvd..100 lbs. 4.25 - —
2, dlvd.....100 lbs. 4.40 - —
3, dlvd.....100 lbs. 4.75 - —
4, dlvd.....100 lbs. 5.35 - —
liquid, 50%, buyers' tanks, works, dry basis..100 lbs. 2.00 - —
sellers, tanks, works, dry basis..100 lbs. 2.10 - —
76%, seller's tanks, works, dry basis..100 lbs. 2.10 - —
solid, 76%, dms., c.l., works. 100 lbs. 2.50 - 2.75
l.c.l., zone 1, dlvd..100 lbs. 3.85 - —
2, dlvd.....100 lbs. 4.00 - —
3, dlvd.....100 lbs. 4.35 - —
4, dlvd.....100 lbs. 4.95 - —
Prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs., prices are ex-warehouse.
Caustic soda zones are same as soda ash.
Chlorate, cryst., bgs., c.l., works..lb. .06¼ —
l.c.l., works.....lb. .06½- —
powd., kgs., c.l., works....lb. .06½- —
l.c.l., works.....lb. .07 - .08½
Chloride (see Salt).
Chromate, bgs., c.l., works, frt. equald..lb. .09½- —
l.c.l., works, frt. equald..lb. .09¾- .19
Soda chromate in bbls., ¼c. higher.
Citrate, USP VIII, bbls.....lb. .18½- —
dms.....lb. .19½- .20½
USP XII, gran., bbls.....lb. .34 - —
dms.....lb. .35 - .39
powd., bbls.....lb. .34½- —
dms.....lb. .35½- .39½
Cyanide, 96-98%, dms.....lb. .14½- .15
Diacetate, 33-35% acidity, bbls. works, dlvd..lb. .09½- .10½
anhydrous, dms., works....lb. .11½- .13
Fluoride, white, 90%, bbls., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
95%, bbls., c.l., works...lb. .07¼- —
l.c.l., works.....lb. .08¼- —
Soda fluoride prices at Los Angeles are f.a.s. works.
Formate, bgs., c.l., works..lb. .06½- —
l.c.l., works .....lb. .0650- —
Glutamate, monobasic, kgs..lb. 1.45 - 1.48
Glycerophosphate, N.F., cryst., bbls..lb. 1.90 - —
powder, bbls.....lb. 1.95 - —
solution, 75%, cbys.....lb. 1.10 - —
50%, cbys.....lb. .85 - —
Hydrosulphite, dms., c.l., frt. alld..lb. .18½- .19
l.c.l., frt. alld.....lb. .19 - .20
Hydroxide, USP, sticks, dms.lb. .24 - .25
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, cryst., bgs., c.l., works, frt. equald..... 100 lbs. 2.25 - —
l.c.l., same basis.100 lbs. 2.50 - —
pea, cryst., bgs., c.l., works. 100 lbs. 2.60 - —
Soda, hyposulphite, crystals, in bbls., 20c. higher; pea crystals, dms., 50c. higher.
USP, cryst., bbls. .....lb. .10 - .12
Iodide, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms.....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works..ton. 90.50 - —
ton lots, works.....ton. 108.00 - —
less ton lots, works...ton. 113.00 - —
Ammonia metaborate in bbls., $20 per ton higher.
Metanilate, bgs.....lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works.....100 lbs. 3.40 - —
l.c.l., same basis..100 lbs. 4.50 - —
gran., bbls., c.l., works, frt. equald.....100 lbs. 3.40 - —
l.c.l., dlvd.....100 lbs. 4.40 - 4.55
Methylate, bots., works....lb. 1.00 - —
cns., works .....lb. .55 - .60
dms., works .....lb. .45 - .65
Molybdate, anhyd., kgs., works. lb. .47 - —
crystals, bgs., works.....lb. .60 - —
Monohydrate, bgs., c.l..100 lbs. 2.90 - —
works .....100 lbs. 3.45 - —
Naphthionate, bbls.....lb. .44 - —
Nitrate, dom., crude, 100-lb. bgs., c.l., works..ton. 35.50 - —
bulk, c.l., works.....ton. 32.00 - —
refd., gran., bbls., 10 tons.. 100 lbs. — - —
smaller lots.....100 lbs. — - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton. 41.50 - —
bulk, same basis.....ton. 38.50 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .06¾- —
West coast, ports.100 lbs. 8.00 - 8.05
l.c.l., dlvd. .....100 lbs. 8.90 -11.90
Orthosilicate, anhyd., bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis..100 lbs. 5.45 - 5.60
flake, Lbls., c.l., works.100 lbs. 3.10 - —
l.c.l., dlvd. .....100 lbs. 4.20 - 4.35
Oxalate, neut., bgs., works..lb. .19 - —
Pantothenate, dextrorotary, 100-gram bots., per gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .18
powd., bgs., c.l., works, frt. equald..lb. .16 - .16½
l.c.l., works, frt. equald.lb. .17 - —
kgs., L.c.l., works, frt. equald. lb. .19 - —
Perborate, NF, bbls., c.l., works. lb. .14¾- —
l.c.l., works .....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .14 - —
smaller lots .....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works.. 100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works.. 100 lbs. 3.50 - —
l.c.l., works....100 lbs. 3.75 - 3.90
USP XII, dried, bbls., dms., works..lb. .159 - —
monobasic, anhydrous, bgs., works..100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald..100 lbs. 7.00 - —
l.c.l., same basis.100 lbs. 7.50 - 8.00
Soda phosphate, tribasic, cryst., bgs., c.l., works..100 lbs. 3.50 - —
l.c.l., same basis.100 lbs. 3.90 - —
kgs., c.l., works...100 lbs. 4.20 - —
l.c.l., works....100 lbs. 4.40 - —
USP (see Sodium phosphate, dibasic).
Soda phosphate in bbls. 40c. higher.
Prussiate, yellow, bgs.....lb. .13 - —
bbls.....lb. .13¼- —
Pyrophosphate, acid, bgs., works, frt. equald..100 lbs. 10.60 -11.35
ferric, dms., 10,000 lbs., works..lb. .22 - —
smaller lots, works.....lb. .22½- —
tetrabasic, anhydrous, bgs., c.l., works, frt. equald. 100 lbs. 6.00 - —
Ricinoleate, tech., bbls.....lb. No stocks
Sal, bgs., c.l.....100 lbs. 1.35 - —
works, c.l. .....100 lbs. 1.10 - —
bbls., c.l. .....100 lbs. 1.40 - —
works, c.l. .....100 lbs. 1.20 - —
Salicylate, dms.....lb. .52 - .55
Sesquicarbonate, bgs., c.l., works..100 lbs. 1.50 - —
bbls., c.l., works.....100 lbs. 1.70 - —
l.c.l., zone 1, dlvd..100 lbs. 2.70 - —
2, dlvd.....100 lbs. 2.85 - —
3, dlvd.....100 lbs. 3.10 - —
4, dlvd.....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., dlvd. .....100 lbs. 5.15 - 5.30
Silicate, 40°, turbid, dms., c.l., works..100 lbs. .95 - 1.15
l.c.l., works.....100 lbs. 1.20 - 1.30
tanks, works.....ton. 15.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - 2.00
tanks, works.....ton. 27.00 - —
Silicofluoride, bbls., c.l., works. lb. .07½- —
l.c.l., works.....lb. .08½- —
Stannate, dms., works, frt. alld. E..lb. .32½- .36½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .10 - .10½
tech., anhyd., bgs., c.l., works. 100 lbs. 1.70 - —
l.c.l., works.....100 lbs. 1.95 - 2.20
cryst. (see Glauber's salt).
USP, cryst., gran., bbls.....lb. .07 - .07½
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., dlvd.....100 lbs. 3.65 - 3.90
solid, bbls., c.l., works.100 lbs. 3.65 - —
l.c.l., dlvd.....100 lbs. 4.15 - 4.50
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - —
bbls., c.l., works.....100 lbs. 2.35 - —
l.c.l., works.....100 lbs. 2.55 - —
powd., bbls., c.l., works... 100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms..lb. .26 - .28
powd., bbls.....lb. .28 - .32
Sulphocyanide, CP, dms.....lb. .35 - .38
Sulphohydrate, flake, 70-72%, dms., c.l..lb. .64½- —
l.c.l. .....lb. .65 - —
liquid, 38%, dms., c.l., works, 100% basis..lb. .06 - —
l.c.l., same basis.....lb. .06 - —
38%, tanks, basis 100%, works..lb. .06¾- —
l.c.l., works.....lb. .06 - —
Sulphoxylate, formaldehyde, dms., c.l., works, frt. alld..lb. .17½- —
Sulphoricinoleate, bbls.....lb. .12 - —
Thiocyanate (see Soda, sulphocyanide).
Tripolyphosphate, bgs., works, frt. equald..lb. .07¼- .08½
Thiosulphate (see Soda hyposulphite).
Tungstate, tech., bgs.....lb. 1.35 - —
Soda-ammonia phosphate, bbls., works, frt. equald..lb. .22 - —
Soda - cinchophen, bots., dms., works..lb. 5.00 - 5.10
Soda-formaldehyde sulphoxalate, stand. cont., 125-250 lbs..lb. .19 - .22
Soda-sulphadiazin, USP, dms., works..lb. 16.50 -16.60
Soda-sulphamerazin, dms., works. lb. 16.50 -16.60
Soda-sulphapyridin, powd., bots., dms., works..lb. 5.00 - 5.30
Soda-sulphathiazole, USP, dms., works..lb. 3.00 - 3.30
Solvent naphtha, dms., wks..gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
Minnequa, Colo.....gal. .26 - —
high-flash, coaltar, dms., works. gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. per gal.. gal. .27 - —
Sorbitol, com'l, dms., c.l., works. lb. .23½- —
l.c.l., works.....lb. .24 - .33
Protein, alpha, bgs., 40,000 lbs., works..lb. .28 - —
20,000 lbs., works.....lb. .29½- —
smaller lots, works.....lb. .32½- .33
Sparteinse sulphate, bots., cns.oz. 2.05 - 2.20
Spearmint leaves, bls.....lb. .52 - .53
Spikenard root, bls.....lb. .50 - .55
Spruce extract, liq., reg., tanks, works..lb. .01¾- —
pwd., super, bgs., c.l., wks.lb. .05¼- —
Squaw vine, bls.....lb. .32 - .33
Squill, red, fortified, powd., bbls., bxs..lb. 1.00 - —
white, bls.....lb. .10 - .12
powd., bbls., bxs.....lb. .10 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls...lb. .10¾- .11½
Starch, corn, pearl, bgs., c.l., 100 lbs. 4.07 - —
l.c.l. .....100 lbs. 4.22 - —
Chicago, c.l.....100 lbs. 3.62 - —
powd., bgs., c.l.....100 lbs. 4.18 - —
l.c.l. .....100 lbs. 4.33 - —
Chicago, c.l. .....100 lbs. 3.73 - —
Cornstarch prices above are for paper bags; cotton bags are 20c. higher.
Potato, bgs., c.l.....lb. .07¾- —
l.c.l. .....lb. .08½- —
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, bgs.....lb. .06½- .07¼
Staves acre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stonecrop, bls. .....lb. .07½- .08
Storax, cs. .....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .30 - .35
Seed, bgs. .....lb. .30 - .31
Streptomycin, hospitals.....gram. 4.80 - —
wholesalers .....gram. 5.34 - —

Strontium bromide, NF, cns., dms..lb. .53 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls. .....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
mesh 90%, bbls., works..ton.68.00 - —
Chromate, bbls., kgs., Phila.lb. .40 - .42
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms. .....lb. 1.30 - 1.40
Nitrate, bbls., c.l., works....lb. .07¾- —
l.c.l., works.....lb. .08¼- .09¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.10 - 1.13
Sulphate, nat., air-floated, 325 mesh 90%, bbls., works.ton.58.00 - —
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.80 - 2.85
Strophanthin, bots. .....oz.30.00 -50.00
Strophanthus seed, Kombe, bgs. lb 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs..oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.00 -
Styrolyl acetate, bots.....lb. 2.80 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l. works..lb. .50 - —
tech., bbls., l.c.l., works...lb. .45 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazine, USP, dms., works. lb. 9.00 - 9.10
Sulphaguanidin, dms., works..lb. 4.50 - 4.60
Sulphamerazin, dms., works...lb. 9.00 - 9.10
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 80-60 mesh, 10c. higher.
Sulphapyridin, powd., bots., tins, works..lb. 5.00 - 5.30
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.30
Sulphonethylmethane, kgs.....lb. 6.75 - 6.85
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long ton.17.50 - —
export .....long ton.20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.15 - —
precipitated, USP, bbls., kgs.lb. .18 - .36
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works..... 100 lbs. 2.85 - —
l.c.l., works.....100 lbs. 3.20 - 3.60
light, bgs., c.l., works.100 lbs. 3.05 - —
l.c.l., works.....100 lbs. 3.30 - 3.60
flowers, USP, bgs., c.l., works. 100 lbs. 3.30 - —
l.c.l., works.....100 lbs. 3.65 - —
Refined sulphur flowers in bbls., 25c. higher.
rock, bbls., c.l., works.. 100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.80 - —
roll, bbls., c.l., works.100 lbs. 2.65 - —
l.c.l., works.....100 lbs. 3.00 - 3.40
rubbermakers', bgs., c.l., wks. 100 lbs. 2.15 - 2.60
Chloride, 35-gal. dms., c.l., works..lb. .03 - .03½
l.c.l., works.....lb. .04 - .04½
10-gal. dms., c.l., works..lb. .07 - .07½
l.c.l. .....lb. .08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works..lb. .085 - —
l.c.l. .....lb. .095 - —
multi-unit cars, works..lb. .06 - —
tanks, works.....lb. .044 - —
refrigeration, cyls., l.c.l., works..lb. — - —
Iodide, bots., jars.....lb. 3.90 - 4.11
Sumac extract, No. 1, bbls....lb. .10½- —
No. 2, bbls.....lb. .09 - —
crystals, bbls.....lb. .40 - —
stainless, bbls.....lb. .11 - .13½
Superphosphate, pulverized, run-of-pile under 22% a.p.a. Balto..unit-ton. .74 - —
Balto..unit-ton. .70 - —
Florida .....unit-ton. .56 - .60
others .....unit-ton. .57 - .60
Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 85½c., per unit-ton plus frt. charges from Anaconda, Mont., in excess of $8.06 per ton; guaranteed 18, 19 or 20% a.p.a., ½c. per unit-ton higher.
triple, 45% or more a.p.a., bulk, producing point, Florida. unit-ton. .68 - —
South Carolina..unit-ton. .75 - —
Tennessee .....unit-ton. .80 - —
Other States and D.C., 62c. per unit ton plus frt. charge for 45% from E. Tampa, Fla.
Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls.....lb. 1.10 - 1.15

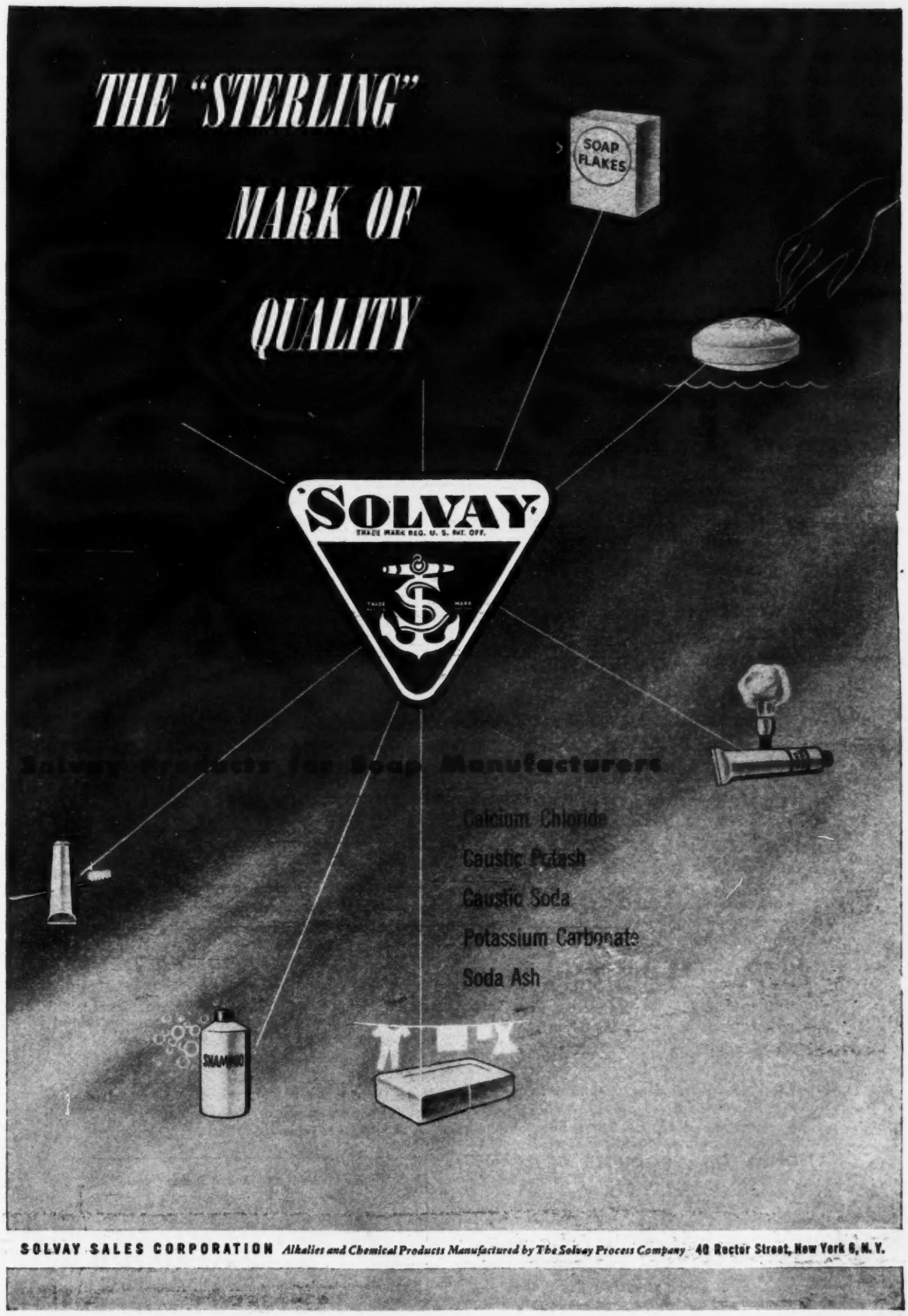
T

Talc, dom., ordinary, grd., bgs., c.l., works..ton.14.50 -34.50
l.c.l., works.....ton.16.50 -30.00
Calif., bgs., c.l., wks..ton.22.00 -35.00
Pennsylvania, bgs., c.l., works..ton.11.00 -13.50
l.c.l., works .....ton.12.00 -14.50
Vermont, bgs., c.l., works.. ton.14.00 - —
l.c.l., works.....ton.17.50 - —
fibrous, grd., off-color, New York, bgs., c.l., works. ton.15.00 - —
325 mesh, 92-94%, bgs., c.l., works..ton.17.50 - —
96 - 99.5%, bgs., c.l., works..ton. No prices.
99.85-99.95% bgs., c.l., works..ton. No prices.
imp., Canada, bgs., c.l.....ton.26.00 -44.50
Tallow, inedible, extra, loose..lb. .22¾- —
special, loose.....lb. .22½- —
sulphonated, 25%, dms.....lb. .09 - .10
50%, dms.....lb. .12 - .13
Tamarind, bbls.....lb. .12 - .12½
Tankage, animal, feed grade, 9-11% ammon., bulk, unit-ton. 7.50 - —
Chicago .....unit-ton. 7.50 - —
fert. grade, 9% ammon., 10% b.p.l., bulk..unit-ton. No stocks
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. No stocks
Tansy leaves, bls.....lb. .15 - .16
Tapioca flour, bgs.....lb. .08 - .13¼
Java, bgs. .....lb. No stocks
Tar acid oil, 15-19%, dms., c.l., works..gal. .35 - —
l.c.l., works.....gal. .38 - —
25%, dms., c.l., works...gal. .41 - —
l.c.l. works .....gal. .44 - —
Tar, pine (see Pinetar).

Tara pods, c.l., ex deck U. S. ports..long ton. No prices
powd., c.l., same basis.long ton. No prices
Tarragon herb, bgs.....lb. .60 - .65
Leaves, bgs.....lb. 1.20 - 1.25
Tartar emetic, tech., gran. or powd., bbls., kgs..lb. .44 - —
dms. .....lb. .44½- .47
Tartar emetic, USP, powd., bbls., dms., kgs..lb. .49 - .52
Terpin hydrate, comm'l, bbls., c.l., lb .24½- —
l.c.l. lb. .25 - .25½
USP, cryst., bbls., dms lb .70 - .75
powd., bbls., dms.....lb. .75 - .80
Terpineol, Alpha (see A)
com'l, dms., c.l., South.....lb. 13½- —
l.c.l., South.....lb 14 - —
tanks, South.....lb. 15 - —
pure, dms.....lb. .36 - .39
extra, dms.....lb. .63 - .70
Terpinglycol ether, dms. (extra), c.l., works lb 19½- —
l.c.l., works.....lb 20 - —
tanks, works..... lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .68 - 1.00
prime, cns., dms.....lb. .62 - .88
Terra alba (see Gypsum).
Tetrachloroethane, dms., works. lb .06 - .08½
Tetrachloroethylene, NF VI, 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25½
tech. (see Perchloroethylene).
Tetrasthyl orthosilicate, dms. works..lb. .65 - —
Tetrapotassium phosphate (see Potash phosphate).

Tetrasodium pyrophosphate (see Soda pyrophosphate).
Thallium sulphate, 99%, bots., works..lb.20.00 - —
Theobromine, dms., 25-lb. lots.lb. 3.75 - smaller lots .....lb. 3.95 - 4.10
Thiamine hydrochloride, dms., 100 grams or more..kilo.100.00 - —
Thiocarbanilide, dms. .....lb. .24 - —
Thiouracil, dms., works.....lb. 5.50 - 5.60
Thiourea, CP, dms. .....lb. .55 - .60
Thorium nitrate, cs., works..lb. 2.00 - —
Thyme, French, bgs.....lb. .17 - .17½
futures, bgs.....lb. .15½- .16
Spanish, bls.....lb. .12 - .12½
Thymol, cns. .....lb. No prices
Iodide, dms. .....lb. 4.25 - —
Timbo root (see Cube root).
Tin chloride, anhydrous.....lb. No stocks
crystals, bgs., bbls.....lb. No stocks
Metal .....lb. .70 - —
Bolivian .....lb. .63½- —
Straits .....lb. No stocks.
Oxide, bbls.....lb. .54 - .55
Tetrachloride, anhyd., dms., works..lb. .31 - .36
Titanium dioxide, chalk resistant, bgs., c.l., dlvd..lb. .15½- —
l.c.l., dlvd. .....lb. .15¾- —
nonchalking, bgs., c.l., dlvd. E..lb .17½- —
l.c.l., dlvd. .....lb. .17¾- —
plain, bgs., c.l., dlvd.....lb. .15½- —
l.c.l., dlvd. .....lb. .15¾- —
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .06¼- —
l.c.l., dlvd.....lb. .06¾- —
Calcium base, bgs., c.l., dlvd. lb. .08 - —
l.c.l., dlvd.....lb. .06¾- —

Titanium pigment, calcium-rutile base, bgs., c.l., dlvd..lb. .06 - —
l.c.l., dlvd .....lb. .06¾- —
Magnesium base, dlvd.....lb. No prices
l.c.l., dlvd.....lb. No prices
Titanium dioxide and pigment in bbls., ¼c higher; Pac. coast, c.l., dlvd., l.c.l., as whse. ¼c. higher.
Tetrachloride, CP, 55-gal. dms., works..lb. .27 - —
smaller pkgs., works....lb. .65 - 1.22
technical, 55-gal. dms., works. lb. .23 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.75 3.80
Toluol (toluene), 2°, indust. grade, dms., works..gal. .23 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo...gal. .23 - —
Prices on toluol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Chicago, 23c. (2¾c.); Del.-Md.-D. C., 23c. (2¾c.); Detroit, 23c. (1 8/10c.); La., 23c.; N. J., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c.); Pa., 23c. (2¾c.); S. C., 26c. (6c.); Tenn., 23c. (3¾c.); Va., 24c. (3½c.); W. Va., 23c. (2¾c.).
1°, nitration, ret. dms., works. gal. .23 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo....gal. .22 - —
Toluene (see Toluol).
Toluidin base, distilled, kgs...lb. 1.00 - —
Tonga, 50% bark and vine, bbls. lb. .90 - .91



Tonka beans, Angostura, cks..lb 1.70 - 1.80
Brazilian, Surinam, cs.....lb .85 - .90
Totaquine, USP XII, 100-oz lots..oz. .53 - —
Triacetin, dms., works.....lb. .36 - —
Triamylamine, dms., c.l., works. lb. .86 - —
l.c.l. .....lb. 1.01 - —
Tributyl citrate, dms.....lb. .41 - .49
smaller pkgs.....lb. .52 - —
Phosphate, dms., l.c.l., frt. alld. E. of Rockies..lb. .65½- —
Tributylamine, dms., c.l., works. lb. .78 - —
l.c.l., works.....lb. .81 - —
Trichlorobenzene, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11 - .14
tanks, frt. alld.....lb. .10 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —
Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .06 - —
Zone 2, frt. alld.....lb. .06½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —

Trichloroethylene, l.c.l. prices, ½c higher Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (3) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (5) Col., Mont. (E), N. M., Tex., Wye.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar base, dms., c.l., divd..lb. .33 - —
l.c.l., divd.....lb. .33½- —
tanks, divd.....lb. .32 - —
Tricresyl phosphate, petroleum base, dms., c.l., divd..lb. .37 - —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .36 - —
Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —
Triethyl phosphate, cms.....lb. .40 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%...lb. .36 - —
tanks, works, basis 100%....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —
Trimethylamine, anhydrous, cyl., works, frt. alld. E. of Miss., 100% basis..lb. .35 - —
solution, dms., c.l., frt. alld. E. of Miss., 100% basis..lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. alld..lb. .26 - —
l.c.l., same basis.....lb. .27 - —
Tripoli, air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l., works.ton.16.00 - —
Trisodium phosphate (see Soda phosphate tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99.9+%, dms., works..lb. 2.85 - —
Oxide, kgs., same basis.....lb. 4.75 - —
Turmeric root, Alleppey, bls...lb. .21 - .21½
Haitian, bls.....lb. .14½- .15
Jamaica, futures, bls.....lb. .15½- .16
Madras, bgs .....lb. .14 - .16½
Turpentine, gum (see Naval Stores, Protective Coatings market).
Turpentine, wood, d.d., dms., extra, c.l., works, South. gal. .81 - —
l.c.l., same basis.....gal. .82 - —
tanks, wks., South.....gal. .75 - —
steam-dist., l.c.l., dms., incl., East..gal. 1.36 - —
tanks, South.....gal. 1.15 - —
Sulphate, ret. dms., East...gal. 1.10 - —

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium, oxide, black, bgs...lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N., bgs., c.l., works or ship, pts..ton.73.00 - —
l.c.l., ship, pts.....ton.75.50 -80.50
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, NH_3..ton.116.80 - —
imports, pure, cs.....lb. .12 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.59.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., NH_3, ton.112.80 - —

C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Urunday, extract, 63% tannin, ex dock, U. S. ports..lb. .05625-.05000
Uva ursi leaves, bls.....lb. .16 - .19

V

Valerian root, Belgian, NF, bls. lb. .68 - .77
Indian, bls. .....lb. .42 - .48
Valonia, beards, bgs, ex dock.. ton.75.00 - —
Cups, bgs., ex dock.....ton.58.00 - —
Extract, powder, bgs., ex dock, lb. .11½- .11¾
Vanadium pentoxide, CP, bgs., cms., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 6.00 - 8.75
Mexican, cuts, tins.....lb. 9.50 -10.00
whole, tins.....lb.10.50 -11.00
Tahiti, tins.....lb. 4.00 - 4.35
Vanillin, ex eugenol, tins, 25 lbs. or more..lb. 4.50 - —
smaller lots, tins.....lb. 4.55 - 4.60
ex guaicol, tins, 25 lbs. or more. lb. 3.00 - —
smaller lots, tins.....lb. 3.05 - 3.15
ex lignin, tins, 25 lbs. or more. lb. 2.85 - —
smaller lots, tins.....lb. 2.40 - 2.60
Venice turpentine, artif., cms..lb. .26 - .29
Verdigris, bbls., bgs.....lb. .22 - .25
Vinyl acetate, cbys., works....lb. .25 - —
dms., c.l., works.....lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14 - —
Ether, bots., 75 c.c., less 20% and 50%..bot. 1.50 - —
60 c.c., same basis.....bot. 1.05 - —
25 c.c., same basis.....bot. .65 - —
Trichloride (see Trichloroethane).
Viosterol (irradiated ergosterol), bots., mil., units. .16 - .13
in corn oil (see Calciferol).
Vinylpyridin, ret. dms., works.lb. 1.50 - —
Vitamin A (see Oils, codliver, halibut-liver)
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Vitamin B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver, halibut-liver, viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol).
G (see Riboflavin).
P-P (see Acid, nicotinic, and Nicotinamide)
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha

W

Wahoo, root bark, bls.....lb. 2.00 Nom
tree bark, bls.....lb. .45 - .50
Wattle bark, merchantable bags, f.a.s..ton.61.00 -62.00
fair average, bgs., f.a.s... ton.63.00 -64.00
extract, liquid, 35% tannin, bbls., works..lb. .06 - .06¼
tanks, works.....lb. .05½- .05⅝
solid, E. Afr., 61% tannin, in bond, ex dock..lb. .06⅝- .06⅞
S. Afr., 62% tannin, ex dock, in bond..lb. .06⅝- .07
Wattle extract prices based on $20 freight and $1.00 insurance per long ton.
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs.....lb. No stocks
Bees, bleached, USP, white, bricks, cakes, cs..lb. .70 - .71
slabs, bgs.....lb. .67 - .68
crude, African, bgs.....lb. .58 - .59
Western hemisphere, bgs.lb. .61 - .62
refined, yellow, bricks, bgs.lb. .64 - .65
slabs, cs.....lb. .63 - .64
Candelilla, crude, bgs.....lb. .76 - .77
refined, bgs.....lb. .80 - .82

Powdered, candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, No. 3, bgs., ton lots..lb. 1.30 - 1.32
North Country, No. 2, bgs., ton lots..lb. 1.38 - 1.40
No. 3, bgs., ton lots.....lb. 1.32 - 1.35
refined, bgs., ton lots.....lb. 1.40 - 1.42
yellow, No. 1, bgs., ton lots. lb. 1.70 - 1.72
No. 2, bgs., ton lots.....lb. 1.68 - 1.70

Powdered carnauba prices, same differentials as powdered candelilla.

Ceresin, dom., 132°-136° m.p., bgs..lb. .16 - .16½
138°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. .20½- .21
Japan, bgs.....lb. .43 - .50
Microcrystalline, 170°-175° m.p., A.S.T.M., amber, ctns., 30 tons yearly contract, group 3, works..lb. .16 - —
smaller lots, same basis. lb. .16 - .17½
black, ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis..lb. .14½- .18½
white, ctns., 30 tons, same basis..lb. .27 - —
smaller lots, same basis.. lb. .27 - .29
190°-195° m.p., A.S.T.M., amber, ctns., 30 tons, same basis..lb. .18 - —
smaller lots, same basis. lb. .18 - .19
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis. lb. .16½- —
smaller ctns., same basis. lb. .16½- .17½
white, ctns., 30 tons, same basis..lb. .21 - —
smaller lots, same basis. lb. .21 - .22
Montan, crude, bgs.....lb. .52 - .55
Ouricury, crude, bgs., ton lots. lb. .75 - .78
refined, bgs., ton lots.....lb. .80 - .82
Ozokerite, dom., 180-190 F., c.l. lb. .36 - —
182-184 F., bgs., c.l.....lb. .31 - —
182-183 F., bgs., c.l.....lb. .27 - —
Spermaceti, blocks, cs.....lb. .45 - .50
cakes, cs. .....lb. .46 - .51
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs. or more..lb. 2.27 - —
White pine bark, rossed, bls..lb. .21 - .25
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, works, St. Louis..ton.10.50 - —
smaller lots, works, St. Louis..ton.12.50 - —
wet-grd., air-floated, 325 mesh, 99½%, bgs., c.l.....ton.14.50 -27.50
200 mesh, 99¾%, bgs., c.l. ton. No prices
90%, bgs., c.l.....ton. No prices
water-floated, extra, gilders, bgs., c.l..ton.14.50 -22.50
gilders, bgs., c.l.....ton. No prices
putty grade, bgs., c.l..ton.12.00 - —
surface treated, bgs., c.l. Ohio, works..ton.27.50 - —

What's Your Vitamin A and D Problem?

— exceptional blandness?
— high "A" and "D" potencies?
— unusual blends of "A" with D_3 or D_2?

NOPCO SPECIALIZES IN SOLVING UNUSUAL PROBLEMS OF VITAMIN A AND D SUPPLY FOR MANUFACTURERS OF PHARMACEUTICALS AND FOODS

BLANDNESS?—Nopco's new Fish Liver Oil Concentration plant at Harrison, N. J., produces Vitamin A and D Concentrates of unusual blandness—concentrates considered superior in taste and odor by some of the most discriminating buyers in the food field.

HIGH POTENCY?—Vitamin A concentrates produced in Nopco's new plant usually run over 1,000,000 units of "A" per gram in potency—amply high for most every practical purpose.

Nopco-produced Irradiated Ergosterol is available in potencies up to 3,000,000 units of "D" per gram. Combinations of Vitamin A with either "Natural" Vitamin D or Irradiated Ergosterol also are available at unusually high potencies, and in a variety of A/D ratios.

UNUSUAL "A AND D" BLENDS?—Let Nopco ship you your "A" and "D" already blended in the exact A/D ratio you need—a valuable, time-saving service which Nopco's trained technical personnel will be glad to perform for your convenience.

What is your Vitamin A and D problem? Whatever it is, try Nopco for a wholly satisfactory answer. Send full details about your "A and D" needs to Special Markets Dept., Nopco, Harrison, N. J.

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Pioneer producers of natural Vitamins A and D, Vitab Rice Bran Concentrate and Calcium Pantothenate.

Nopco's complete "A and D line" includes
Vitamin A—in fish liver oil blends or concentrates
Vitamin D Concentrates from Fish Liver Oil
Irradiated Ergosterol—potencies up to 3,000,000 U.S.P. units per gram
Combination of Vitamin A with Natural D or D_2

Whiting, Paris white, bgs., c.l.
ton.25.00 -31.00
l.c.l. ton.25.00 -28.00
precipitated, bgs., c.l. ton.14.00 -18.00
l.c.l. ton.18.00 -20.00
Wild cherry bark, thick, bls. lb. .06 - .07
thin, natural, bgs. lb. .18 - .20
rossed, green, bls. lb. .24 - .26
Wild indigo root, bls. lb. .38 - .40
Witch hazel leaves, bls. lb. .28 - .30
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y. ton. No prices
60 mesh, same basis ton. No prices
80 mesh, same basis ton. No prices
100 mesh, same basis ton. No prices

Woodflour, in bags, 25c. each extra, returnable.

Wormseed, American, bgs. lb. .30 - .37
Levant, bgs. lb. 4.25 - 4.30
Wormwood, bls. lb. .50 - .60

X

Xanthorrhiza, bls. lb. .28 - .30
Xylidin, mixed, dms. lb. .38 - —
Xylene (see Xylol).
Xylol (xylene), indust., ret. dms., works gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .23 - —
West Minnequa, Colo. gal. .23 - —

Prices on xylol from petroleum, tanks, delivered (maximum freight allowance in parentheses), are:—Ark., 23c.; Del.-Md.-D. C., 23c. (2½c.); Detroit, 23c. (1 3/10c.); La., 23c.; N. E., 23c. (2¼c.); N. J., 23c.; N. Y., 23c.; N. C., 25c. (5c.); Pa., 23c. (2½c); S. C., 26c. (6c.); Tenn., 23c. (3¼c.); Va., 24c. (3½c.); W. Va., 23c. (2½c.); the Chicago price is 20c. f.o.b. terminal.

10°, ret. dms., works gal. .30 - —
tanks, E. of Omaha, frt. alld. gal. .25 - —
5°, ret. dms., works gal. .31 - —
tanks, E. of Omaha, frt. alld. gal. .32 - —
8°, ret. dms., works gal. .42 - —
tanks, E. of Omaha, frt. alld. gal. .37 - —

Y

Yara yara, cryst., bots., cns. lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, dms. lb. .35 - —
60 B units, dms. lb. .45 - —
200 B units, dms. lb. .50 - —
800 B units, dms. lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .32 - —

Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Benzidin, bbls., dlvd. lb. 1.60 - —
Cadmium, lithopone, all shades, bbls., frt. alld. E. of Rockies lb. .55 - .60

Los Angeles and San Francisco, ex whse., 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts lb. .24 - —

Chrome, CP, bbls., dlvd. Ala., Fla., Ga., La. (Shreveport), 1½c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1½c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 3c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.5c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Dutch, pink, bbls. lb. .09 - .11
Hansa, bbls., same basis as chrome lb. 1.48 - —
primrose, bbls., same basis Bethlehem, Easton, Pa. lb. 1.98 - —
l.c.l., same basis lb. .04½- —
synthetic, bbls., c.l., works lb. .06 - —
l.c.l., works lb. .07½- —
Mercury oxide, bbls., 1,000 lbs. lb. .07½- —
smaller lots lb. 2.48 - —
Ocher, American, golden, bbls., works lb. 2.45 - —
Iron oxide, nat., bbls., c.l., yellow, bgs., works lb. .04½- .06½
French type, bgs., c.l. lb. .02½- .03½
l.c.l. lb. .03½- —
Persian orange (see O).
Zinc, bbls., same basis as chrome lb. .04 - —
Navy spec. type bbls., contract lb. .17½- —
Yellow dock root, bls. lb. .19 - —
Yellow xanthorrhiza (see Xanthorrhiza). lb. .25 - .30
Yerba santa leaves, bls. lb. .28 - .35
Yohimbine hydrochloride, vls. oz. 3.25 - 4.00

Z

Zein, bgs., 1,000 lbs., works lb. .23 - —
smaller lots, bgs. lb. .30 - —
Zinc acetate, tech., bbls., dlvd. lb. .20 - —
USP, bbls. lb. .26 - .27
bgs. lb. .27 - .30
Arsenite, bgs., c.l., frt. alld. E. of Rockies lb. .11½- .12½
l.c.l., same basis lb. .12½- .13½
Borate, bgs., c.l. lb. .12 - —
Carbonate, tech., rubbermakers' grade, bbls., works lb. .09½- .10½
USP, precip., powd., bbls. lb. .25 - —
dms. lb. .40 - —
bgs. lb. .27 - —
Chloride, tech., fused, dms., c.l., works, 100 lbs. 5.00 - —
l.c.l., works, 100 lbs. 6.25 - —
gran., dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., works, 100 lbs. 6.00 - —
solution, 50%, dms., c.l., works lb. .0615- —
l.c.l., works lb. .04½- .04½
tanks, works lb. .0250- —
USP, dms lb. .30 - .31
jars lb. .26 - .30
Chromate (see Yellow, zinc).
Cyanide, bgs., works lb. .34 - .35
Dust, bbls., c.l., dlvd. lb. .1250- .1300
l.c.l. lb. .12½- .13

Zinc fluoride, bbls., works lb. .18 - .19
Hydrosulphite, dms., works lb. .16 - —
Iodide, NF, 1ars lb. 4.65 - —
Laurate, bbls. lb. .32 - .38
Metal (quotations in Protective Coatings market).
Naphthenates, 8% Zn, liquid, dms. lb. .18¾- —
10% Zn, liquid, dms. lb. .22½- —
14% Zn, solid, dms. lb. .31¾- —
Oxide, pigment, dom., acicular, bgs., c.l., dlvd. lb. .09½- —
l.c.l., works lb. .09¾- —
American process, com'l, lead-free, bgs., c.l., dlvd. lb. .09¼- —
l.c.l., works lb. .09¾- —
leaded, 5%, bgs., c.l., dlvd. lb. .09½- —
l.c.l., works lb. .09¾- —
35% or more, bgs., c.l., dlvd. lb. .11 - —
l.c.l., works lb. .11¼- —
50%, bgs., c.l., dlvd. lb. .11¾- —
l.c.l., works lb. .11⅞- —
French process, com'l, lead-free, bgs., c.l., dlvd. lb. .11¾- —
l.c.l., works lb. .12 - —
green seal, bgs., c.l., dlvd. lb. .11¼- —
l.c.l., works lb. .11½- —
white seal, bgs., c.l., dlvd. lb. .11¾- —
l.c.l., works lb. .12 - —
red seal, bgs., c.l., dlvd. lb. .10¾- —
l.c.l., works lb. .11 - —
USP, ctns., c.l., dlvd. lb. .12¾- —
l.c.l., works lb. .13 - —
Zinc oxide Pac. Coast prices ½c. higher; bbls. prices ¼c. higher than bgs.
Resinate, fused, 1% Zn, lump, 9% Zn, powd., dms. lb. .18½- —

Zinc silicofluoride, bbls. lb. .15 - .16
Stearate, tech., ctns., 2,000 lbs. to c.l. lb. .48 - .49
smaller lots, same basis lb. .50 - —
USP (same prices as tech.).
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld. 100 lbs. 4.15 - —
l.c.l., same basis 100 lbs. 4.90 - —
flake, 25½% Zn., bgs., c.l., same basis 100 lbs. 4.80 - —
l.c.l., same basis 100 lbs. 5.55 - —
powd., 36% Zn., bgs., c.l., same basis 100 lbs. 6.75 - —
l.c.l., same basis 100 lbs. 7.50 - —
Zinc sulphate in bbls., 40c. higher.
Sulphide, pure, bgs., c.l., dlvd. lb. .10 - —
l.c.l., works lb. .10½- —
Barium pigment, works, bgs., c.l., dlvd. lb. .07 - —
l.c.l., works lb. .07½- —
Calcium pigment, works, bgs., c.l., dlvd. lb. .07 - —
l.c.l., works lb. .07¼- —
Fluorescent pigment, works, frt. alld. lb. 1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd. lb. .07 - —
l.c.l., dlvd. lb. .07½- —
Zinc sulphide and pigment, prices ½c. higher; bbl. prices ¼c. higher than bgs. Pac. coast
Sulphoxylate formaldehyde, babbls., dms. lb. .26 - .30
Sulphoxylate, formaldehyde, basic, dms., works, frt. alld. lb. .17 - —
normal, dms., works, frt. alld. lb. .25 - —
Taliate, 5% Zn, dms. lb. .09¾- —
Yellow (see Yellow, zinc).

Zinc-ammonia chloride, dms., c.l., works, 100 lbs. 5.65 - —
l.c.l., works, 100 lbs. 6.70 - —
Zinc-cadmium sulphide, fluorescent, cns., works, frt. alld. lb. 2.00 - 2.80
Zinc-iron oxide pigment, bgs., c.l., dlvd. lb. .07¾- —
l.c.l., dlvd. E. of Rockies lb. .08¼- —
Pac. cst. lb. .08¼- —
ex whse., Pac. cst. lb. .08¾- —
Zirconium acetate, solution, bbls., works lb. .25½- —
Hydride, cns., works lb. 7.00 - 8.00
Nitrate, bgs., works lb. 3.00 - 4.00
Oxide, 99%, grd., bbls., c.l., works lb. .22½- —
l.c.l. lb. .27½- —
white, 99½%-99%, grd., kgs., works lb. .20 - —
milled, electric, fused, 2,000-9,999 lbs., works lb. .16 - —
500 lbs. and less, same basis lb. .16½- .20
Oxychloride, cryst., bbls., 5 tons, works lb. .20½- —
Sulphate, basic, cake, bbls., c.l., works lb. .13 - —
l.c.l., works lb. .13½- .20
smaller lots, works lb. .20 - .21½

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the Feb. 3 issue of OPD.

What characteristics do you require in Zinc Oxides?

The St. Joseph Lead Company produces specific types or grades of lead-free zinc oxides for the rubber, paint and other zinc oxide consuming industries. Irrespective of what your individual requirements may be, you will find that the pigment recommended by our technical staff will possess the characteristics considered most desirable for your particular purpose.

St. Joe lead-free Zinc Oxide is produced direct from our own ore by a patented Electro-Thermic Process which permits unusually close control to be exercised in every phase of production. This makes it possible to maintain the exceptionally high standards of quality and uniformity for which St. Joe Zinc Oxides are recognized throughout the consuming industries.

ST. JOSEPH LEAD COMPANY

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Plant & Laboratory: Josephtown, Beaver County, Pennsylvania

Showing microscope and equipment for examination of physical characteristics and particle size of St. Joe Zinc Oxide in our laboratories at Josephtown, Pa.

ST. JOE Lead-Free ZINC OXIDE

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M Is for Management

To say:—"M is for management" is not merely to state a matter of orthography in the manner of a child's first book of spelling. The letter, "M," is basic in all the major functional subjects of management. It "stands for" money, methods, machines, materials, men, makeup, markets—and mistakes. The big job of management is to know and to coordinate its M's. It is a job that all too frequently falls far short of perfection because of misplacing of emphasis.

It is most unfortunate in that unsatisfactory condition that, as the public, which includes the employed personnel of an enterprise, sees it, the major, almost exclusive, subject of managerial functioning is money—raising money to finance the enterprise; making money largely to pay for the raising. Of course, that conception is not in accordance with the complete factual condition; but, aside from data on earnings, the facts are usually the last thing the public learns about a business.

Equally unfortunate is it that materials and markets usually get greater and more capable consideration than is given to men; machines and operating methods get more attention than makeup, which is the methodical adjustment and utilization of manpower. Men and makeup are all too commonly left to the "noncommissioned officers" of an enterprise, which is one reason why the control of men has so largely been lost to labor organizers.

Managerial training has been at fault. It is being improved. There is a growing recognition of the essential importance of greater ability in internal human relations, and it is noteworthy that, where that function has been raised to a parity with the management of the external human relations of financing and selling, the results have been equally profitable. Human engineering can and will and does contribute as essentially to the profitability of an enterprise as chemical engineering, mechanical engineering, or any other.

M is for management—and M is many things, all of which are essential in the composite of human behavior that is business. Money and markets, materials and machines, methods, makeup, and men—each has an important part which must be fully understood and properly coordinated. Always, of course, there will be some of that other M—mistakes. But, as management knows its M's, including its mistakes, so will it be able to avoid that most undesirable one—mess.

What About Weeds

Weeds are the latest enemy which threatens the existence of mankind. In the public press, they have succeeded bugs and rodents in the clamor for exterminative endeavor.

The agricultural battle against weeds has benefited much from technical progress in the past few years. Synthetic hormones and other chemical compounds, new petroleum oils, flame-throwers, and special methods of applying heavily nitrogenous fertilizers are among the recent additions to the materiel of herbicidal warfare. But, not enough is yet known about the peculiarities of selective destroyers to effect adequate extermination without damage to useful plants. Manpower is not sufficient to do a thorough job of burning off or raking out.

There is a psychologic side to the war on weeds—and it largely is on the side of the weeds. In part it is the carryover of the commercial ideas which made the cotton-planter regard the boll weevil as his friend. In other part it is a sense of "What's-the-use?" engendered by such companion newspaper heads as "Potato Industry to Glamorize Spud" and "Potatoes For Export Cut to 5c. a 100 Lbs."

Potato-growers did a very good production job last season. Some of those who have to help the government pay for the white-elephant results are inclined to think that the land would better have been devoted to the growing of weeds.

Washington Talks It Over

—Continued from page 5

velopment—but there is more to the story. The question naturally arises as to how the drug is administered. And the answer to this isn't going to be very satisfactory for those raisers with flocks of thousands of birds of which we see pictures every year around Thanksgiving time. The department says that the best method of treatment is injection of the drug into the wattles. That means every bird has to be handled separately and this should be done every day for four days.

The department tried giving penicillin to the birds in their drinking water but this didn't work. Only one bird out of every ten would drink the stuff!

Budget Has Supplement

A new angle to the "battle of the budget" that has been raging in and out of Congress since the President sent up his budget message early last month, has just been added by the Chamber of Commerce of the United States. The chamber says that the 1948 fiscal year budget, instead of being $37,500,000,000, as stated by the President, is about $10,000,000,000 greater than this figure.

The reason for this difference, it is explained, is because the expenditures of the government corporations and credit agencies are not included in the President's 1948 total. This will run in the neighborhood of $11,400,000,000 on a gross basis. Allowing for net expenditures by these agencies of about $1,000,000,000, the aggregate cost of all government fiscal operations for fiscal 1948 will be nearer to $47,500,000,000.

The $11,400,000,000 total for wholly owned government corporations and credit agencies includes $4,300,000,000 for new loans. The largest part of the loans is for agricultural purposes, including the price support program under CCC and loans to production credit associations and cooperatives by the Intermediate Credit Banks.

State Department Evicted

One of the biggest moving jobs in the history of the government is scheduled to take place between March 15 and April 15. The Department of State, which has occupied quarters next to the White House for nearly three generations, is being compelled to move out to provide more room for President Truman's economic advisers and their staffs.

The department is going to locate itself in the new War Department building at Twenty-first street and Virginia avenue, N.W., which was built just before the war to house the War Department, but turned out to be too small for its needs after the war started. The Department of State is now scattered in about twenty-five locations.

Synthetic Fuels Research

With crude oil production at a new peak in 1946 and demand on limited domestic reserves increasing year by year, Secretary of the Interior J. A. Krug has disclosed that synthetic fuels production costs will be considerably lower than anticipated.

The Secretary's annual report to Congress on the progress of the synthetic liquid fuels program of the Bureau of Mines states that industrial estimates based on new research developments now place the cost of producing gasoline from coal or oil shale at from 7½ to 9½ cents a gallon, only a few cents higher than the current cost of gasoline from petroleum, but not including profit or interest on investment.

Crude petroleum output in 1946 was estimated by the bureau at a record 1,731,000 barrels, 1.2 percent greater than in wartime 1945, and the report predicted that demand will grow in years to come with increased automobile, airplane, Diesel engine, industrial, and household requirements. Domestic production from known fields cannot be increased substantially, however, without irretrievable loss, for oil is now being withdrawn at or near the maximum efficient flow of the wells.

For several years, discoveries of oil in new fields have not kept pace with consumption despite vastly increased exploration, and discovery costs have risen sharply, the report adds.

Reviewing 1946 research and development progress of the Bureau of Mines in the field of synthetic fuels, a program undertaken at the direction of Congress to insure the nation's economic and military security, the Secretary reported a number of outstanding scientific and engineering achievements, all contributing to the pattern of "know how" being cut for American industry.

Farms and Machines

Farm mechanization faces the double problem of fitting the machine to the farm and fitting the farm to the machine. Some farm machines have been getting smaller. For example, many modern combines are midgets compared with the early horse-drawn combines built for the "bonanza" wheat farmers. In general, however, farms are growing in size to fit the machines, says the Bureau of Agricultural Economics.

The average farm for the country as a whole is now 50 acres larger than twenty-five years ago; 20 acres larger than five years ago. In the Midwest, where extreme sizes are less numerous, the average farm has increased about 30 acres in the last twenty-five years. Today, over half of the farmland in the country is in farms of over 500 acres, compared to only a third in 1920. And farms over 1,000 acres now account for 40 percent of the farmland, compared with less than a fourth twenty-five years ago.

The number of farms of 100 acres to 180 acres decreased by over 110,000 during the war.

World Farm Survey

A world census of agriculture is to be taken in 1950 under the sponsorship of the Food and Agricultural Organization of UN. A list of basic items designed to serve as the starting point for the census already has been submitted to the governments of the world in order that they can start now in preparing for the census.

The census will be taken by each country individually, rather than by agents of FAO, but FAO will coordinate the work and issue world tables summarizing the information received. The commodities proposed to be covered include wheat, rye, rice, millet, maize, barley, oats, dried beans and peas, potatoes, grasses, legumes, and other crops cut for hay, sugar cane, sugar beets, cotton, groundnuts, tobacco, vegetables and melons for human consumption, grapes, citrus fruits, other tree fruits, bananas, coffee, tea, and cacao, and all livestock and poultry, and production of milk and eggs.

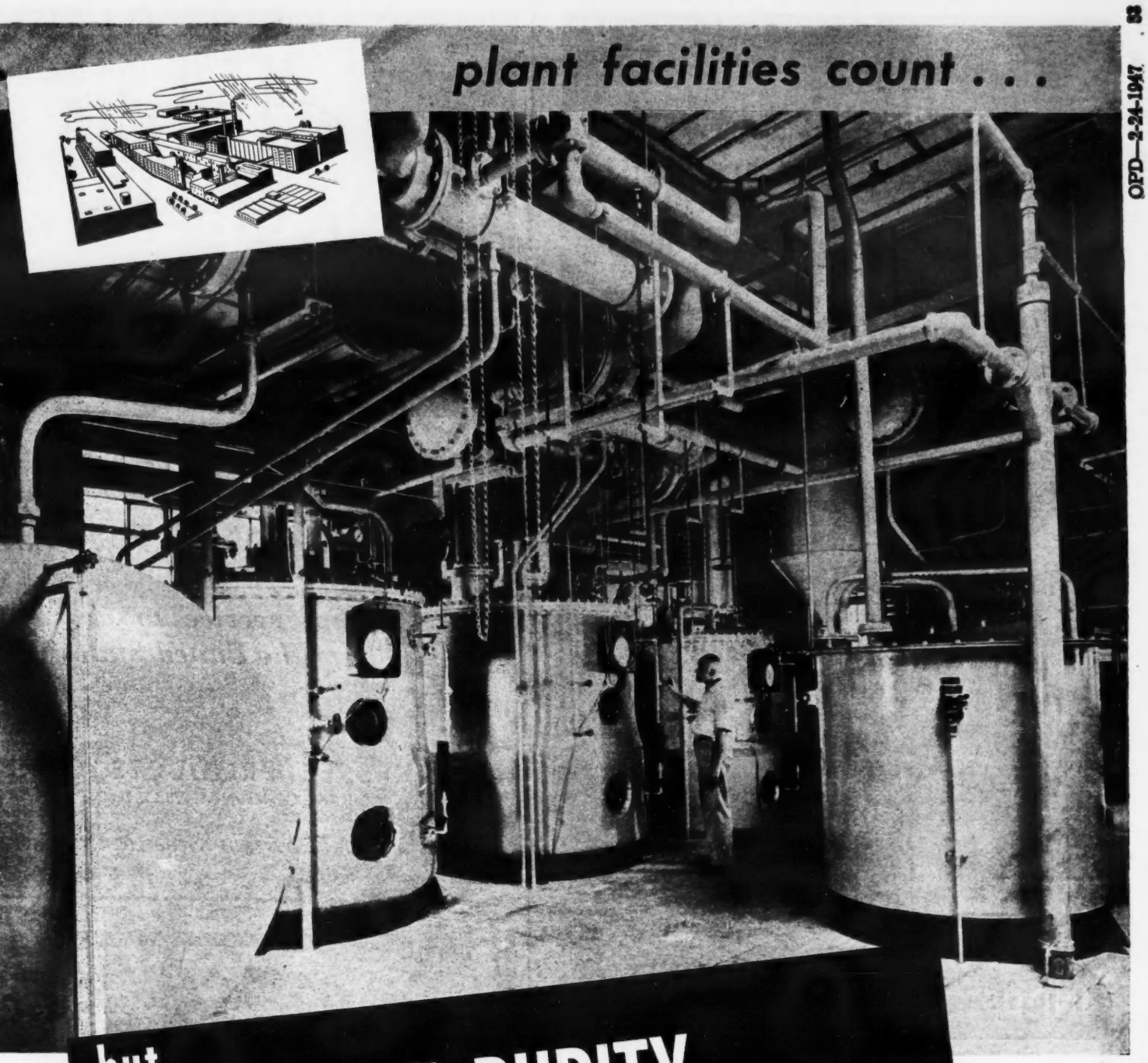
Besides the acreage and production of the commodities, other information sought includes total area of each holding or farm, area owned by holder, area rented, amount of arable land, land used for growing trees, vines, or shrubs, number of occupied dwelling units on each holding, number of persons living in these dwellings, and whether or not animal or mechanical power was used on each holding.

Shares in Federal Taxes

If businessmen have been wondering why so much congressional talk centers on reducing taxes on individuals and so little is said about the tax burden on corporations, they need only look at the data contained in the President's budget for the next fiscal year. Almost half of the total Treasury receipts in the fiscal year 1948 will be from direct taxes on individuals—and individuals are the ones who cast ballots, not corporations.

The most significant change in the distribution of tax burdens during the war years was the much larger proportional increase in the yield from direct taxes upon individuals than from other taxes. From 25 percent of all Treasury receipts in 1939, the yield from direct taxes on individuals increased to 30 percent in 1943, 42 percent in 1945, and 43 percent in 1946, and is estimated to reach 45 percent in the current fiscal year and more than 48 percent in fiscal 1948.

Direct taxes on corporations also remain at a high level in comparison with prewar years, although not increasing as a proportion of total receipts to any such extent as taxes on individuals. The corporation income tax will account for 21 percent of all receipts in 1948, which is not greatly different from the percentage in 1939.



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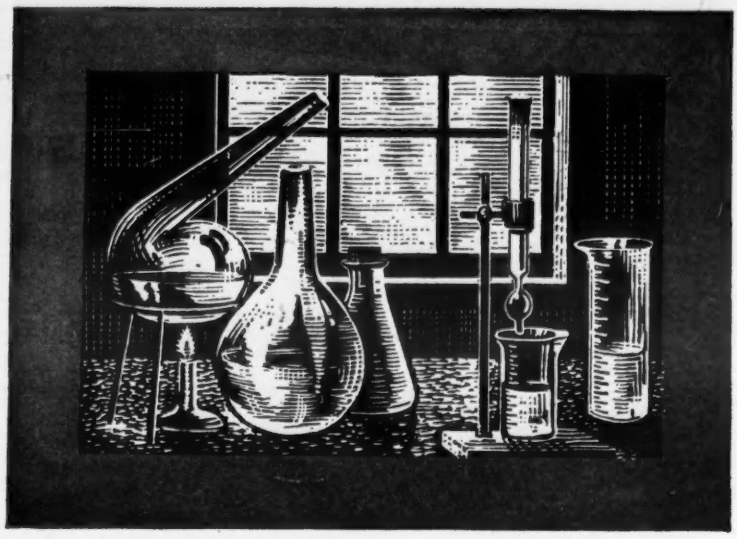

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Heavy Chemicals

Short stocks of the chemicals that command the most attention have continued to make it difficult for buyers to secure supplies. This condition is not new but it will remain until there is less differential between supply and demand. Capacity production has been irregular during the past month. While some new installations have been made in plants, others are waiting for mechanical and structural parts and at best, output has not averaged much better than fair. The most unfavorable feature is that demand has increased while production has not expanded in the same proportion. The allocation system continues to be employed by producers in order to maintain an equitable distribution. Additional orders are not meeting with consideration in several first hand quarters, because output is too heavily sold ahead. The container scarcity is a serious problem that has not been solved and the delay in returning empty drums has tightened an already tense situation. Some producers are placing a ten dollar handicap on drums which will be allowed when the drum is returned.

Caustic soda and soda ash are out so far as new orders are concerned. Chlorine has not improved its supply condition and carbon tetrachloride along with bleaching powder has tightened appreciably. Trade sentiment has turned bullish in the copper metal market. Thallium sulphate has been established at a higher selling level. White powdered arsenic remains short with domestic production down and barely enough stock in sight to meet agricultural requirements. Zinc sulphate is firm with demand exceedingly heavy for rayon and agricultural uses. The new producing plant which starts operating next month has booked a heavy tonnage for shipment of zinc sulphate. Buyers have advanced views for cadmium metal without loosening up stocks. All potash chemicals are definitely firm with stocks below consuming requirements. Some chloride of barium is moving, but the market is not in free supply. The market for technical epsom salts appears to be working into better balance.

Production figures given below unless otherwise designated are from the Bureau of the Census.

Antimony Oxide—Finding a steady outlet into both the ceramic and paint industries. Export inquiry reported active with sales restricted through difficulty in securing licenses. Prices firm at former selling levels.

Arsenic—Domestic production continues below capacity and the market's supply position is exceedingly tight. It is said that it will be difficult to satisfy all requirements for the insecticide trade although the major part of current shipments is channeled to that industry. The contract price is unchanged at 6c. per pound, carlot basis.

Barium Chloride—Available stocks appeared to be getting shorter. Supplies have never been excessive, but were able to meet the current extent of consuming inquiries. No price changes were noted during the month.

Bleaching Powder—Sold ahead production for domestic use has presented any easement in the tight supply condition and the same difficulty in securing containers is being experienced. The market is firm on the basis of former quotations.

Cadmium — Shortage of cadmium metal both ingots and sticks has continued acute. The market was quoted higher at $1.75 to $1.80 per pound. This figure signified buyers' views as no stock had reached the market at this level.

Carbon Tetrachloride—Demand has kept above the supply of this material and container shortage has added to the delay in making shipments from works. In sime producing quarters an additional charge of $10.00 per drum has been made, which is returnable, in an effort to speed up consumers in sending their empties back to production plants.

Chlorine — February has not occasioned any material change in the supply situation. Demand is ahead of production and the serious shortage of containers has interrupted the movement from works.

Copper—Trade sentiment is bullish on copper metal at present. It is stated most of the available metal has been released by the Metals Reserve Company for domestic consumption each month, but that the allotment may be sharply reduced in March unless the price is advanced. According to reports, foreign material has been brought in at higher prices and the increased cost will have to be covered. The current market for electrolytic is 19½c. per pound.

Epsom Salt—Shipments of technical are slightly behind producers' schedules, but the market is not as far out of balance as many other chemicals. Demand for industrial use has been and the advance in prices established at the beginning of the year has been fully sustained.

Manganese Chloride—While stocks of the anhydrous and flaked grades have not been in free supply, producers have been able to meet requirements on a fairly prompt basis. The market appeared to be working toward a balanced condition. There was no suggestion of a change in the price structure.

Nickel Chloride—According to trade reports, production has been running below capacity as a result of the stringency in raw materials. The supply situation was tighter than noted at the beginning of the month.

Nickel Sulphate — Platers' requirements have been covered on a reasonably prompt basis. Producers appear to have better command of the current inquiry and have been able to move material closer to schedule than for some time.

Potash Carbonate—Short stocks have featured the market throughout the month of February. Demand has continued ahead of output and the market has maintained a tight position. A large part of production is said to be moving to the glass trade.

Potash Caustic—Buying conditions have continued tight and will remain so until demand and supply have been brought into better balance. Both the liquid and dry forms have been short of requirements.

Potash Chlorate—Market has continued to feel the impact of a heavy consuming demand that has temporarily thrown the market out of balance. The match factories have taken a heavy toll on production.

Soda Ash—Stinted power, it was stated, caused by the recent ice storm reduced plant capacity and resulted in some depreciation of tonnage. There was no visible relaxation in the extent of industrial demand and the immediate supply situation continued exceedingly tight. Producers have pressed every available boxcar into operation but, according to reports, current transportation facilities are not capable of maintaining an even flow of material from works to industrial plants. There has been a limitation on the amount of resale stock reaching the open market and the differential between contract figures and prices asked has been wide enough to curb actual sales. Prospects at present do not favor any early easement in the overall supply condition although there are interests who look for a fuller distribution during the last half of this year. At New Orleans, the Interstate Commerce Commission has taken steps to force the immediate un-

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Cadmium metal, 20c. per lb.
Thallium sulphate, $2.50 per lb.

Prices Reduced

None

Comparative Price Indexes

General Chemicals

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
194.5	194.5	194.5	168.9

Acids

Last week.	Prev. week.	Last month.	Last year.
119.1	119.1	119.1	116.0

(For Current Prices see Page 9)

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loading of freight cars containing soda ash where unreasonable delays have prevented their release.

Soda, Caustic — Market conditions have not improved during February. All the material possible has been produced and shipments have been made as full as containers and transportation facilities would permit. Demand has continued heavy and has been fed entirely from output thereby leaving reserve shelves bare. There have been no new developments suggestive of nearby easement in buying conditions and the market position is exceedingly tight for both the dry and liquid forms. The present container shortage has remained a problem while the industrial pressure for shipments has not relaxed. Export inquiries have mounted and it is reported that a sizable volume of orders is unfilled. Odd lots of resale material have been offered by second hands at prices about six times over the producers' contract figures

Soda Chlorate—Aside from the demand for weed killers, demand for oxidizing requirements has expanded at a greater rate than production and capacity at some of the major producing plants has been over-taxed with shipments falling behind schedule.

Soda Nitrite—Production has been barely able to meet the current extent of demand. The market has felt the impact of a steadily increasing inquiry from the dyestuff manufacturers and the meat packing industry.

Soda Phosphate—December recorded a lower production for tetra. The total amounted to 3,121 tons compared with 4,428 tons in November and 4,268 tons in December, 1945. Output of meta revealed little material change. December registered 2,161 tons, against 2,012 tons in the preceding month and 2,538 tons in December, 1945.

Soda Silicate—Production of soluble silicate glass, liquid and solid in December amounted to 32,479 tons, compared with 34,442 tons in the preceding month and 29,276 tons for December, 1945.

Soda Sulphide—Miscellaneous buying interest has taxed production of this chemical and shipments to the consuming industries have kept the inventory position definitely tight. Demand has emanated mostly from the hide and leather industry and the manufacturers of sulphur dyes, chemicals and pulp. Prices are firm but unchanged.

Thallium Sulphate — Market conditions are firmer. The lowest price heard in domestic producing quarters was $20.00 per pound for 99 percent, representing an advance of $2.50 over the former selling level.

Tin—Bolivian advices state that production of tin concentrates in 1947 is expected to total 40,000 tons, of which about half will be exported to the United States. It is reported that Bolivia will ask the United States to pay 76c. a pound for fine tin in 1947, as against 67c. last year, with provision for a 3c. increase on production over 17,000 tons.

CPA has announced that it has authorized the export of 120,000 tons of tinplate in the second quarter of 1947. Of the total, all but 10,000 tons can be secured by priority ratings for preserving perishable foods, according to a recent decision of the Bureau of International Supply. CPA pointed out that the amount which may be rated for export is 14,000 tons less than the quota for priority exports during the first quarter.

Tungsten—Higher prices have been established in the British market, according to London advices. In metal sources 85 shillings was named for tungsten ore or $17.50 per unit. Burma export shipments are not expected to expand greatly during 1947.

Zinc Sulphate — Rayon mills have been booked heavily for this chemical and at present demand is increasing for agricultural use. Next month a new producer's plant will swing into action and it is stated that the major part of this new production is under contract. The price situation is firm, but without quotable change.

Acids

Hydrofluoric—December production was lower. The total registered 3,629,000 pounds, compared with 3,990,000 pounds in November and 3,053,000 pounds for December, 1945. The supply situation has tightened somewhat since the first of the month and producers have experienced difficulty in securing containers.

Muriatic — Industrial demand reported heavy with contract shipments keeping stocks low. Production in December amounted to 30,714 tons, against 30,150 tons in November and 28,990 tons in December, 1945.

Nitric — Production in December amounted to 62,460 tons, compared with 63,277 tons in the preceding month and 33,033 tons in December, 1945. Shortage of carboys has caused some delay in moving material from works.

Phosphoric—Total output in December amounted to 79,887 tons, compared with a revised total of 82,020 tons in November and 72,066 tons in December, 1945. Included in last year's December total, 41,278 tons were made from phosphorus and 38,609 tons were produced from phosphate rock.

Oxalic—Producers' shipments continue considerably behind contract schedules and the market position has remained exceedingly tight with practically no material obtainable for prompt shipment.

Sulphuric—Regardless of the relatively high production recently noted in December, consuming demand broadened sufficiently in the last two months to hold the market's supply position tight. Probably delayed shipments resulting from container shortages contributed to the tense supply situation in some areas.

Trade Briefs

E. R. Squibb & Sons, New York, has appointed Howard S. Tierney, Jr., export advertising manager.

Textile chemical division of Dexter Chemical Corporation, New York, is issuing another folder in its series of technical service data, which describes "Maxitol No. 10" and its use as a protective agent and dyeing oil.

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Heads ACS Unit

Dr. George F. Rugar, manager of product development of the Diamond Alkali Company, Painesville, Ohio, has been elected chairman of the Northeastern Ohio Section of the American Chemical Society. He succeeds Dr. Marvin Achterhof, chief chemist of the Ohio Rubber Company, who was named to the Society's National Council. Dr. H. G. Elledge, assistant to the director of research of the Diamond Alkali Company, was chosen chairman-elect.

Hydrocarbon Research

—*Continued from page 4*

development of new products, Dr. Spaght said.

These newly developed products would have among them new fuels for propulsion devices, a whole new line of aromatics, new and more useful synthetic detergents, agricultural chemicals such as insecticides, fungicides, and plant hormones, and a host of new chemical intermediates. Dr. Spaght predicted that while all of these things will not necessarily be accomplished this year, that they will be accomplished by the use of new and old reactions.

During his discussion, Dr. Spaght indicated that in the United States, all industry will this year spend about $500,000,000 on research, and the government will spend slightly over $1,000,000,000.

Dr. Spaght expressed the feeling that the future use of shale oil will for economic reasons be superseded by the conversion of gas and coal into liquid hydrocarbons.

Helium Research

—*Continued from page 3*

less steel. It is thought also that the gas might find use in magnesium casting operations to prevent flashing.

Other uses in which research work is going on with the advice and assistance of the bureau, is in the field of medicines for treatment of respiratory diseases, and as a tracer to chart underground oil and gas migration. Use of helium in the treatment of asthma has already been pretty well accepted by the medical profession. Over 400,000 cubic feet of the gas has been sold by the government for this purpose alone.

Research in purification of the gas, officials said, has progressed rapidly and it is expected that by July the Armarillo plant will be turning the gas out in commercial quantities, measuring 99.5 percent pure as against 98.2 percent pure at the present time.

Nitrocellulose Exports

—*Continued from page 4*

arsin and dichlorodivinylchloroarsin); methyldichloroarsin; diphenylchloroarsin; diphenylcyanoarsin; diphenylaminechloroarsin; phenyldichloroarsin; ethyldichloroarsin; phenyldibromoarsin; ethyldibromoarsin.

Also phosgene; monochloromethyl chloroformate; trichloromethyl chloroformate (diphosgene); dichlorodimethyl ether; dibromodimethyl ether; cyanogen chloride; ethyl bromoacetate; ethyl iodoacetate; bromobenzyl cyanide; bromoacetone; bromomethylethyl ketone.

Also propellent powders, and high explosives as follows:—nitrocellulose having a nitrogen content of more than 12.2 percent; trinitrotoluene; trinitroxylene; tetryl (trinitrophenolmethylnitramine or "tetranitromethylanilin"); picric acid; ammonium picrate; trinitroanisol; trinitronaphthalene; tetranitronaphthalene; hexanitrodiphenylamine; pentaerythrite tetranitrate (penthrite or pentrite); trimethylenetrinitramine (hexogen or T4); potassium nitrate powders (black saltpeter powder); sodium nitrate powders (black soda powder); amatol (mixture of ammonium nitrate and trinitrotoluene); ammonal (mixture of ammonium nitrate, trinitrotoluene, and powdered aluminum, with or without other ingredients); Schneiderite (mixture of ammonium nitrate and dinitronaphthalene, with or without other ingredients).

Surplus Materials

—*Continued from page 4*

cents per pound; Philadelphia, PHO-71-449.

Diethyleneglycol, technical, 248 gallons, $1.10 per gallon; Philadelphia, PHO-71-449.

Ethyl acetate, 575 gallons, 70 cents per gallon; Philadelphia, PHO-71-449.

Grease, lubricating, 1,140 pounds; Los Angeles, LAO-73-451, February 27.

Methylbromide, 55,000 pounds; Philadelphia, PHO-71-405.

Naphtha, petroleum, aromatic, 750 gallons; Los Angeles, LAO-73-451, February 27.

Nitric acid, 150 pounds, 5 cents per pound; Philadelphia, PHO-71-449.

Oil, hydraulic, two lots, 9,647 gallons; Los Angeles, LAO-73-451, February 27.

Oil, lubricating, low-pour, 3,399 gallons; SAE20, 1,760 gallons; Los Angeles, LAO-73-451, February 27.

Oil, turbine flushing, 11,713 gallons; Los Angeles, LAO-73-451, February 27.

Phenylamine, tertiary, alkylated, 7,369 gallons, $1.50 per gallon; Philadelphia, PHO-71-449.

Phosphoric acid, USP, 85 percent, 1,470 pounds, 12 cents per pound; Philadelphia, PHO-71-449.

Pyrogallic acid, 846 pounds, $1 per pound; Philadelphia, PHO-71-449.

Red squill, 247,000 pounds; Philadelphia, PHO-71-402.

Sodium bisulphite, anhydrous, 800 pounds, 25 cents per pound; Philadelphia, PHO-71-449.

Sodium silicate, 42.2 Be., 4,470 pounds, 1.2 cents per pound; Philadelphia, PHO-71-449.

Tetrachloroethane, 1,275 gallons, 13 cents per gallon; 96,460 pounds, 1 cent per pound; Philadelphia, PHO-71-449.

The Philadelphia regional WAA office has opened a sale (PHO-71-445) of 700 1-ton freon cylinders, designed for use on multiple-tank car frames. They are suitable for sulphur dioxide, chlorine, or propane. The fixed price is $105 each.

Chemistry Congress In London July 16-24

The eleventh International Congress of Pure and Applied Chemistry, originally scheduled for 1941 but postponed because of the war, will be held in London July 16-24. It will follow the centenary meeting and celebrations of Great Britain's Chemical Society. Dr. Marston T. Bogert, of Columbia University, and president of the International Union of Chemistry, will lead the American delegation.

Frank Dollard Joins Riches-Nelson, Inc.

Frank Dollard has joined the sales staff of Riches-Nelson, Inc., manufacturers' representative, New York. Mr. Dollard was previously associated with American Cyanamid Company, New York and more recently with Republic Chemicals Corporation, New York.

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We regret the limitations of supply do not enable us to supply all potential users of Diamond products at the present time. Definite plans for increased future production, however, will alleviate this situation in the months to come.
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Polystyrene Plastic Film Data Offered

Details on the highly-successful German technique and machinery for converting powdered polystyrene into a tough plastic film with excellent dielectric and mechanical properties are now available in report form, the Office of Technical Services, Department of Commerce, has announced.

The film, called "styroflex," was used in Germany during the war as an insulating material for high-frequency coaxial cables and as a substitute for mica sheets in high-precision fixed capacitors.

Though the fundamentals of the process were known in the United States before the war, American manufacturers could not produce a polystyrene film that had the uniformity of thickness and the stability and flexibility of the German made product, Joseph T. Mayer, chief of the Machinery Unit of OTS' Technical Industrial Intelligence Division, stated.

"The information contained in the report will be helpful to the manufacturers not only in matching the quality of the German film but also in obtaining similar quality in other plastics such as polyethylene, polyamid, methyl methacrylate, and polyvinyl chloride," Mr. Mayer said.

The report contains operating data as well as engineering drawings of the machinery. A graphic process chart correlates film thicknesses with output per hour, temperatures of screw and head of extruder, speed of take-up mechanism and mesh sizes of the extruder screen.

Orders for the report, "The Production of Styroflex Film" (PB-44965; photostat, $2; microfilm, $1; mimeographed, 75 cents), should be addressed to the office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

McBride Gets du Pont Plastics Dept. Post

C. R. McBride has been appointed to succeed the late L. R. Blackhurst as manager of the products division of the plastics department, it has been announced by E. I. duPont de Nemours & Co., Wilmington, Del.

Torsiometer Data Reported by OTS

The CWS torsiometer, a laboratory device developed by the Chemical Warfare Service for measuring the consistency and elasticity of the sticky jelly substances used in incendiary bombs, is described in a report being offered for sale by the office of Technical Services of the Department of Commerce.

Orders for the report, "The CWS Torsiometer: Its Evaluation and Application to the Evaluation of Gel-Type Incendiary Mixtures" (PB-46446; photostat, $6; microfilm, $2), should be addressed to the Office of Technical Services, Washington 25, D. C., and should be accompanied by check or money order. payable to the Treasurer of the United States.

Deterioration Reports Offered by OTS

More than 200 research reports on deterioration of textiles, wood, leather, metals, plastics, electrical insulation, optical instruments and other items subject to attack by weather, bacteria or fungi, are listed in a bibliography issued by the Office of Technical Services, Department of Commerce. All of the reports are available from OTS.

Most of the reports are based on American wartime research. Others consist of documents acquired from the research files of I. G. Farben by American investigators in Germany, and reports of interviews with German technicians.

Mimeographed copies of the bibliography on "Deterioration" will be sent free of charge upon written request to the reference section of the Office of Technical Services, Department of Commerce, Washington 25, D. C. The bibliography lists the complete title and file number of each report, as well as the price for microfilmed or photostatic copies.

Heinemann Chairman Of Texas ACS Unit

Gustave Heinemann, of the Southern Alkali Corporation, Corpus Christi, Tex., has been elected chairman of the South Texas Section of the American Chemical Society. He succeeds Professor J. L. Nierman of the Texas College of Arts and Industries, who was named to the society's national council. Foster G. Garrison, of the Southern Alkali Corporation, was chosen vice-chairman, and Bruce P. Ainsworth, jr., of the Celanese Corporation of America at Bishop, secretary-treasurer.

McLaughlin Retires From Socony-Vacuum

Retirement of James M. McLaughlin as general manager of the Wadhams Division of Socony-Vacuum Oil Company, March 1, has been announced by H. T. Ashton, manager of the company's central marketing region. Mr. McLaughlin, whose headquarters are in Milwaukee, has been with the company for twenty years and has been general manager of Wadhams since 1940. M. G. Peeters will succeed Mr. McLaughlin and will be division manager. Mr. Peeters has been with the company for twenty-seven years and has been sales manager of the Wadhams Division for the last seven years.

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EQUIPMENT: Complete operating unit—with an eleven-foot Chemco, drum-type, oil burning concentrator; a Cottrell carbon tube precipitator tower, and other necessary equipment and accessories.

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The surplus property includes 1-Chemco oil-fired Sulphuric Acid Concentrator (with a rated capacity of 286 tons of 93% acid from 73% acid per day) and the building which houses it.

CONDITIONS OF DISPOSAL: Offers will be considered for the purchase of (1) the Sulphuric Acid Concentrating Unit, including the building, both for removal from site or (2) the equipment only, for removal from site.

Final written proposals for the purchase of this unit, with or without the building, for off-site use, will be received by the War Assets Administration, Office of Real Property Disposal, Post Office Box 1172, Nashville, Tennessee, until 2:00 P. M., C.S.T., Tuesday, April 8, 1947, at which time all proposals will be opened and read. Information on how to prepare and submit a proposal may be obtained from any War Assets Administration Regional Office.

CREDIT TERMS may be arranged.

Information contained in this advertisement is not intended for use as a basis for negotiation. War Assets Administration reserves the right to reject any or all proposals.

For complete details address:

WAR ASSETS ADMINISTRATION

OFFICE OF REAL PROPERTY DISPOSAL

CONSOLIDATED VULTEE BUILDING · NASHVILLE, TENNESSEE

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Bids Wanted

—*Continued from page 4*

Office Department (Washington, D. C.) invitation 1998, February 28.

Metal cleanser, 202,200 pounds, Army Air Corps (Dayton, Ohio) invitation 387, March 11.

Naphtha, 130,813 gallons; aromatic, 1,890 gallons, Army Air Corps (Dayton, Ohio) invitation 386, March 18.

Naphthalene, flake, 479,000 pounds, Army Quartermaster (New York City) invitation 113, February 28.

Oil, engine preservative, 165,000 gallons, Army Ordnance Department (Raritan Arsenal, N. J.) invitation 112, March 5.

Oleomargarine, 197,998 pounds, as required April 1 through June 30, Veterans Administration (Washington 25, D. C.) invitation 91-S, February 27.

Paint, 355 gallons, Army Air Corps (Dayton, Ohio) invitation 245, March 5; 1,100 gallons, Treasury Department (Fort Worth, Texas) invitation FW-1097, February 28; **enamel,** 20,000 gallons, Army Ordnance Department (Raritan Arsenal, N. J.) invitation 113, March 3; 300 gallons, Treasury Department (Ft. Worth, Texas) invitation FW-1097, February 28; 768 gallons, Army Air Corps (Dayton, Ohio) invitation 381, March 6.

Salad oil, 34,340 gallons, as required April 1 through June 30, Veterans Administration (Washington 25, D. C.) invitation 90-S, February 26.

Shortenings, 325,720 pounds, Veterans Administration (Washington, D. C.) invitation 92-S, February 28.

Soap, laundry chip, 2,000 pounds, toilet, 12,000—1 ounce cakes, Treasury Department, (New York City) invitation W-10821, March 10.

Soda ash, 20,000 pounds, Veterans Administration (Dayton, Ohio) invitation 47-304, February 28; 40 tons, Army Quartermaster (West Point, N. Y.) invitation 82, March 4.

Sodium Aluminate, 5,000 pounds, Veterans Administration (Dayton, Ohio) invitation 47-304, February 28.

Tank sealer, 307,930 pounds; and thinner, 8,321 gallons, Army Air Corps (Dayton, Ohio) invitation 379, March 6.

White lead, in oil, 17,500 pounds, Treasury Department (Fort Worth, Texas) invitation 1097, February 28.

Zinc chromate sealer, 11,838 pounds, Army Air Corps (Dayton, Ohio) invitation 378, March 6.

Trade Briefs

Superior Oil Company's well in Caddo County, Okla., became the world's deepest drilled well last week when a depth of 16,935 feet was reached. The previous record for a drilled well, 16,668 feet, was equalled two weeks previous.

Norwegian Artificial Resin Company has been organized to take preliminary steps for the development of a plastics industry in Norway and to construct a plant for the production of raw materials needed in the manufacture of plastics products.

Chemical Output in Germany

Production of selected chemical items in the United States zone of occupation in Germany during the first nine months of last year, in comparison with the estimated average scheduled for 1949, is shown in the following table just released by the War Department on the basis of information supplied by the Military Governor in Germany:—

Item and unit	Pre-war average (1938)	1946 1st Q av'age	1946 2nd Q av'age	1946 July	1946 Aug.	Estimated 1949 av'age
Fertilizers—						
Cyanamid, tons N_2	4,400	2,628	3,018	3,425	3,599	3,750
Other nitrogen compounds, tons N_2	2,200	3	863	1,300	1,115	[1]
Phosphates, tons P_2O_5	1,650	186	169	294	172	2,000
Thomas slag, tons P_2O_5	550	[1]	284	510	459	[1]
Potash, tons K_2O	14,600	320	9,343	16,310	17,373	20,000
Basic inorganic chemicals—		2,733	4,659	4,710	4,100	14,000
Soda ash, tons	3,200					
Caustic soda, tons Na O	[1]	1,518	2,602	2,854	3,101	2,000
Sulphuric acid, tons SO	[1]	1,006	1,751	2,200	3,012	12,500
Calcium carbide, tons	[1]	11,698	15,194	16,331	16,926	17,000
Hydrochloric acid, tons 30% HCL	[1]	2,181	2,873	3,176	2,878	[1]
Chlorine, tons	[1]	1,966	1,460	1,602	1,921	2,200
Basic organic chemicals—						
Acetic acid, tons	[1]	171	389	511	495	[1]
Acetone, tons	[1]	52	94	154	89	[1]
Acetaldehyde, tons	[1]	917	1,576	1,831	1,414	[1]
Miscellaneous products—						
Soap, tons	[1]	1,124	934	941	733	2,200
Cleansing agents, tons	[1]	4,452	3,539	3,467	3,647	[2]3,000
Paints, varnishes and lacquers, tons	[1]	1,906	2,819	3,185	3,538	3,500
Insecticides, tons	[1]	603	1,033	874	780	[1]
Vaccines and sera, liters	8,662	13,391	15,257	12,118	10,678	[1]
Dyes (ready for sale), tons	[1]	87	133	156	[1]	900
Crude coaltar, tons	4,200	1,986	2,326	2,122	2,352	[1]

[1] Not available.

[2] Excludes scouring powders.

P.A.'s on Business

—Continued from page 5

sizes of pipe create a bottleneck for many users. Steel scrap and pig iron are still short.

Lumber is reported seeking buyers at lower price levels, with better grades in more abundant supply.

Southern citrus fruits and vegetables are plentiful, with lower demand; cotton buff deliveries improved; plastic compounds a little easier; formaldehyde shortage a plastic bottleneck; quicksilver slightly lower.

Employment

February employment is on a definite upward trend. Some plants report they have reached their maximum; others have added shifts as more materials have become available. Better class workers and more skilled labor are obtainable in several areas; better labor conditions are reported with more full crews—less absenteeism.

Canada

Canada is getting the reaction from partial decontrol of some items and higher price ceilings for others. Conditions are somewhat similar to those existing in the United States in October, November and December, but the price upswing has not been as drastic.

General business in Canada is reported good and on the increase. Prices higher; inventories static, with downward trends. Employment higher, with large unsatisfied demand. Buying policy dictated by availability of goods, with strong desire to keep within 90-day commitments.

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Obituaries

Charles B. Towns

Charles B. Towns, long identified with the treatment of drug addiction and head of Charles B. Towns hospital, New York, died last week. He was eighty-five years of age.

Mr. Towns was an early exponent of legal control of the sale of narcotics. He framed the Boylan bill to regulate narcotics, which the New York State Legislature enacted in 1914. Two years later he acted as a consultant of the Congressional Ways and Means Committee in framing of the Harrison Federal narcotics control law.

R. S. Friddy, power engineer for the Atlas Powder Company, Wilmington, Del., died at his home in Ridley Park, Pa., February 16. He was sixty-five years old.

George Blow, consulting mining engineer, New York, died in that city February 17. He was fifty-nine years old.

Dr. F. B. Plummer, member of the petroleum engineering faculty at the University of Texas, died in Austin, February 17. He was sixty-one years old. Dr. Plummer recently completed several months in South America doing oil exploratory work for the Brazilian government.

Joseph Rudolph Bien, retired civil and mining engineer and former executive of Julius Bien & Co., lithographer and publisher, died February 19. He was eighty years of age.

Six Petroleum Firms Officials Killed in Crash

Six members of the petroleum industry were among the fifty-four passengers killed in a plane crash in Bogota, Colombia, February 16. They were:—W. L. Wohn, a retired United States Army Colonel who served with the Air Transport Command in the Caribbean area during the war and later became chief of the construction department of the Tropical Oil Company; H. A. Burton, of St. Charles, Mo., co-ordinator of North American personnel of the Tropical Oil Company; Carl Hubman and J. F. Huffendick, also an official of Texas Petroleum; Harold Coward, of Calgary, Alta., an official, and Allan C. Campbell, of London, chief of the legal department of Tropical Oil.

Du Pont Names Friday Parlin Plant Manager

L. H. Friday has been appointed manager of the Parlin, N. J., plant of the finishes division of E. I. du Pont de Nemours & Co., Wilmington, Del., succeeding R. A. Macfarlan, who died two weeks ago. In other personnel changes, R. L. Priddy, assistant manager of the Chicago finishes plant, was named assistant manager at Parlin, and was succeeded in Chicago by Norman I. Dress, supervisor of paint production at the Philadelphia plant.

N.Y. Textile Chemists To Meet March 7

The New York section of the American Association of Textile Chemists and Colorists will have a dinner-meeting at Kahler's Swiss Chalet, Rochelle Park, N. J., March 7. Dinner will be at 7:15, preceded by a reception. Papers will be presented on "The Tippy Dyeing of Wool and its Controls," and "The Williams Unit—Its Use in Textile Processing."

Amer. Viscose Names Two Divisional Heads

American Viscose Corporation, New York, has appointed Jackson A. Woodruff and Harry F. Creegan divisional heads of the Textile research department. Mr. Woodruff heads the textile development laboratories and Mr. Creegan the dyeing and finishing division.

Keystone Varnish Company, Brooklyn, has presented a cash award to Charles J. Missak, industrial sales manager, in recognition of his fifty years service with the firm.

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EXPORT—DOMESTIC—IMPORT

Textile and Leather Chemicals

Export demand for sizing materials continued active last week, but owing to scarcity of offerings, trading was limited. Sizable quantities of potato starch were booked for shipment abroad during the next two months and combined with a good request for domestic use, production was absorbed through March and a portion of April. A good demand for cornstarch for export also was in the market and resale material was cleaned up at premiums for shipment to foreign destinations. Corn processors increased quotations of corn derivatives fractionally last week. Interest in tapioca flour continued slow. Offerings for shipment from Brazil were available at former levels, with buyers here showing little or no interest at present. Distressed lots of sago flour were offered on the spot at prices below the cost of replacements.

While buying interest in tanning materials requirements was restricted, reports from primary markets indicated a firmer tone for shipments of mangrove bark, myrobalans and wattle bark and extract. Prices for these materials were fractionally higher. Wattle extract was in active request and trading was noted at the advance in quotations. Active inquiry for quebracho extract replacements continued last week, but trading was still limited owing to light offerings for shipment.

Chemicals

Bichromates—Heavy consuming demand continued to take the current output, which was reported in smaller volume in comparison with the same time last year. Production has been affected by the scarcity of soda ash, and as a result the supply situation remains tight. Demand for export was active. Scarcity of supplies continued to limit shipments. Prices were firm.

Prussiates—Conditions in this market remain steady. Demand continued to absorb the bulk of the output. Prices were unchanged and maintained for all grades.

Soda Hydrosulphite — Consumers were taking sizable quantities against former contracts. Prices were unchanged and well held.

Dyestuffs

Annatto—Recent arrivals were delivered against orders. Supplies on the spot were adequate to cover current light demand.

Cochineal—Trading was quiet, and mainly for small lots for immediate needs. Supplies on the spot were scarce and firmly held, reflecting the high cost of replacements.

Madder—Small lots were in fair request for actual needs. Prices were unchanged.

Sizing Materials

Albumen, Egg—Firmer tone was noted in albumen as a result of the strength in the egg situation. Edible was in fair demand and well maintained at $1.70 to $1.78 per pound, depending upon quantity. Offerings were not as liberal as heretofore. Small stocks of technical were well held at $1.10 to $1.30 per pound, as to quantity.

Corn Sugar—Increased cost of corn resulted in suppliers advancing prices 15c. per 100 pounds. Tanners chipped was quoted at $4.59 per 100 pounds bags, carlots, New York basis.

Dextrin, Corn—Prices were advanced 15c. per pound per 100 pounds, following the higher cost of cash corn. Demand continued to absorb the output. British gum was quoted at $5.75 per 100 pounds, paper bags, carlots, New York delivery; canary, $5.49; dark, $5.59, and white, $5.34, same basis.

Egg, Yolk—Strength in the egg market was reflected in the yolk. Prices were firmer and ranged from $1.16 to $1.25 per pound, according to quantity. Supplies were reported limited and firmly held.

Starch, Corn—Processors increased quotations 15c. per 100 pounds for all grades, as a result of higher cost of cash corn. Demand continued active and moved steadily against current contracts. Export inquiry was active and moderate volume of resale material was reported sold at premiums for shipment abroad. Pearl was advanced to $4.22 per 100 pounds, paper bags, carlots New York and powdered to $4.33, same basis.

Market Trends

Prices Advanced

Corn dextrin, 15c. per 100 lbs.
Cornstarch, 15c. per 100 lbs.
Corn sugar, 15c. per 100 lbs.
Egg yolk, 1c. per lb.
Mangrove bark, $2 per ton.
Myrobalans, $2 per ton.
Wattle bark, $1 per ton.
Wattle extract, ¼c. per lb.

Prices Reduced

Sago flour, 2c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
291.9	293.5	292.8	299.4

(For Current Prices see Page 9)

Sago Flour—Distressed stocks on the spot were offered freely at 7c. per pound, bags, which was below the cost of replacements. Demand was slow and the market was dull. February-March shipments were quoted at 7¾c. per pound, c.i.f. New York.

Starch, Potato—Heavy demand for export practically cleaned up production through March and offerings were scarce during the past week. Domestic demand was moderate. Market was in a firm position at unchanged prices.

Tapioca Flour—Business was reported practically at a standstill with buyers and sellers marking time. Offers for shipment from Northern Brazil attracted little buying interest. Low grades were quoted at 5¾c. per pound, f.o.b. Brazil and medium grades 7c. to 7½c. per pound, same basis. Demand for stocks on the spot continued dull and quotations were merely nominal at 7¾c. to 13c. per pound, depending upon quality and quantity. Arrivals totaled 6,710 bags at New York last week.

Tanning Materials

Divi-Divi—Primary markets continued steady and offerings were light and closely held. Inquiry for replacements was fair. Shipments were maintained at $68 to $70 per ton, ex-dock, U. S. ports.

Mangrove Bark—This market was reported firmer for shipment and prices were advanced about $2 per ton. Offers for shipment were light with 38 percent tannin held at $60 per ton, ex-dock, U. S. ports. Consuming inquiry was reported slightly improved.

Myrobalans—Higher prices were reported for shipment. J1 was advanced to $44 per ton, and J2 to $41 to $42, ex-dock, U. S. ports. Trading was quiet. Offers for shipment were not as liberal as heretofore.

Quebracho Extract—Tanners' interest in replacements was active. Trading was reported restricted by limited offerings from the Argentine. Market was firm. Recent sales were confined to solid ordinary as clarified was unavailable for shipment because of the lack of soda ash. Solid ordinary was nominal at 7 15/16c. per pound, in bond, Atlantic ports.

Tara Powder—Resale material was in scarce supply, as recent arrivals were delivered against former orders. Demand for spot and prompt delivery was unsatisfied. Imports totaled 2,150 bags at New York last week, and consigned on prior orders.

Valonia — Trading was reported quiet. Offers for shipment were fairly liberal and prices were reported steady at former levels. Imports of valonia cups were reported at 4,860 bags and 510 bags described as valonia at New York last week.

Wattle Extract—Primary markets were advanced for bark and extract. Demand was active and offers were limited. Sales of solid extract were reported at 7c. per pound, ex-dock, in bond, and the market was reported firm thereat. Bark also was advanced about $2 per ton. Merchantable was quoted at $61 to $62 per ton, f.a.s. and fair average quality at $63 to $64, same basis. Arrivals of bark totaled 710 bales and 499 bags of extract at New York last week for delivery on previous orders.

For Late Market Developments, See Page 4

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Coaltar Chemicals

Another gain in steel operations was recorded last week. The schedule called for 94.1 percent of ingot capacity, the highest rate registered in twenty-one months. While the output of coaltar has expanded, it appears that consuming demand for coaltar chemicals has increased in greater proportion. Stocks available for prompt shipment could not be described as free in any classification. The demand for industrial pure and the nitration grades of benzol was sustained at a relatively high level with supplies displaying a disposition to tighten. No easement could be noted in the call for crude coaltar or cresylic acid. Creosote oil inquiry was active with expansion in demand expected as the Spring season approaches. Pressure for naphthalene shipments was exceedingly heavy with the call from phthalic anhydride producers greater than can be supplied at present. The sold up condition of phenol was reflected in the continued shortage of additional offerings. Mounting costs of production resulted in higher prices for solvent naphtha.

Available stocks of most intermediates were short with shipments largely restricted to contract consumers. Dyestuff output was held down and regulated by the amount of basic products available. A firm tone featured hydrogenated solvents with stocks for prompt shipment relatively tight.

Steel operations for the week beginning February 17 were scheduled at 94.1 percent of ingot capacity, compared with 93.7 percent in the preceding week according to the American Iron and Steel Institute. A month ago the indicated rate was 92.5 percent. The present schedule is equivalent to the production of 1,646,700 net tons of ingots and castings, compared with 1,639,700 tons for the previous week and 268,000 tons for the corresponding week in 1946.

Basic Products

Benzol—February has witnessed a slow but persistent tightening in the supply of benzol in this area. Buying interest has continued active with demand heavy for shipments of both industrial pure and the nitration grades. Production was sufficient to meet most requirements but some delay in the movement from works resulted from the current container shortage. Stocks were not adequate to meet export requirements in full. Foreign inquiry has been active throughout the past month. The undertone of the general market was firm without revealing any new market price changes.

Coaltar—Consuming demand of sizable dimensions has continued to feature this market. The steady outflow from producing plants has kept stocks low and the market was reported tight with prices sustained at former selling levels.

Cresol—No additional price changes were reported in the U.S.P. grade. Demand continued active enough to keep the supply situation tight particularly for prompt shipment.

Creosote Oil—No indication of easement from the tight supply condition could be noted in this tar distillate. Buying interest for wood preservation remained active and is expected to increase as warmer weather approaches. The market's price structure was firm with recent advances fully sustained. Prices are higher in the British market with possibilities not encouraging for the importation of foreign stocks at present.

Cresylic Acid—All the acid possible has been moved to meet industrial requirements but stocks have remained short of demand. The call for tricresylphosphate and synthetic resin uses has been maintained at an unusually high level. No British arrivals were recorded last week. Former prices were firmly sustained.

Naphthalene—Pressure for purified crude shipments gave no signs of relaxing last week. As this material regulates the production of phthlalic anhydride, demand from that source has continued active enough to overtax production. Crude is also in heavy demand for various chemical uses. The refined grades have commanded increased attention for use in intermediates, tanning and plastics. The overall situation as far as supplies are concerned is exceedingly tight.

Phenol—Available stocks were as short at the close as at the beginning of the month. Production appears to be sold tight for the next few months, and while shipments are going forward to the consuming industries, there is a severe scarcity of stocks for additional requirements. Under such conditions, producers are not inclined to accept new orders until the market is brought into a better degree of balance.

Solvent Naphtha—Higher prices have been named for this material. Mounting producing costs have made it necessary to make an upward revision in quotations. Drums in carlots or less are held at 28c., and tankcars at 23c. per gallon for shipments in the East. High flash solvent naphtha is held at 32c. per gallon in drums and 27c. per gallon in tankcars. On the latter, some producers are allowing 3¼c. per gallon from nearest competitive point.

Toluol——Firm at the recent advance with the supply position tighter than at the beginning of the month. Consuming demand has increased and the present market is not in free supply, although reasonably prompt shipments have been booked at prices current.

Xylol—No new price changes were registered in this market last week. The general market was quoted firm at the recent advance with demand for lacquers and enamels active enough to keep the supply situation relatively tight.

Hydrogenated Solvents

Some expansion in buying interest was noted in these solvents. Stocks could not be described as free at any time during the month as production has been kept down in some of the important varieties by the stringency prevailing in phenol. This condition was reflected in both cyclohexanol and cyclohexanone. The recent advance in benzol followed by a jump in toluol prices contributed strength to cyclohexane and methylcyclohexane. While the solvent use in fats and oils has not increased, it is stated that demand has improved for uses in lacquers, cellulose and synthetic resins.

Coaltar Acids

Anthranilic—Short stocks have remained current in this acid with the supply situation appearing tighter at the close than in the early stages of the month. The movement is said to be confined to contract accounts and running somewhat behind scheduled requirements.

Broenner's—Regular consumers are getting some of this material but there seemed to be little stock available for additional wants. The price position

Market Trends

Prices Advanced

Solvent naphtha, 1c. per gal.
Solvent naphtha, high flash, 2c. per gal.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
131.9	131.8	131.7	127.3

(For Current Prices see Page 9)

Coke By-Products

Estimates of by-product coke-oven operations in the week ended February 14 indicate the following output of by-products from that source:—

Ammonia liquor NH_3....lbs.	1,112,688
Ammonia sulphate.....lbs.	28,812,750
Benzol .....gals.	3,630,875
Coaltar .....gals.	13,469,375
Creosote oil.....gals.	749,600
Naphthalene, crude.....lbs.	1,780,038
Phenol .....lbs.	210,820
Toluol .....gals.	726,175
Xylol .....gals.	163,975

For Late Market Developments, See Page 4

KOPPERS ANNOUNCES

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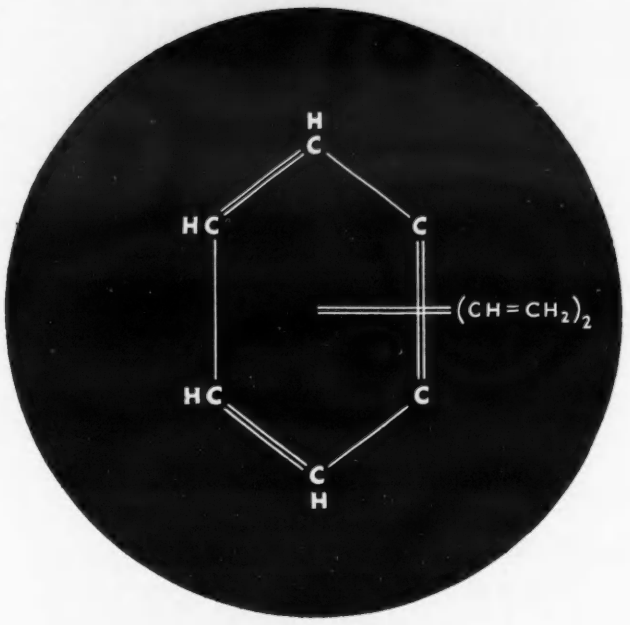

K KOPPERS

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continued firm with former selling levels fully sustained.

Fumaric—Consuming demand has not relaxed for this acid, with the synthetic resin industry taking the major part of output. Shipments have not been sufficient to level off demand and the supply condition has remained definitely tight.

Gamma—Market conditions have remained firm throughout the month. Contract shipments for dyestuff requirements have constituted the chief movement for production.

Laurent's—Conditions were similar to other coaltar acids. Demand has continued sufficient to absorb output and hold the supply situation tight.

Maleic—Stocks have been kept at a definitely low level under an exceedingly active demand mostly for use in protective coatings and synthetic resins. Prices are firm but without quotable change.

Neville and Winther's—Shipments against regular contract accounts have been sufficient to absorb current production. The market position is described as tight with former prices fully maintained.

Picric—Both the technical and U.S.P. grades of this acid have found a steady outlet through regular consuming channels. No price changes were recorded.

Other Intermediates

Alphanaphthol — No appreciable easement in the market's supply condition could be noted. The stringent situation in basic products has been instrumental in keeping production down.

Anilin—Active domestic consuming demand has been satisfied on a fairly prompt basis. The market was not in free supply but it was stated that distribution has shown some improvement during the month. The firm situation in basic materials has contributed strength to the anilin oil market.

Betanaphthylamine — Prices have shown no indication of change, although the market position has remained firm. The constant trouble experienced in securing crude products has made it difficult to maintain production and the market's supply has been kept at a relatively low state.

Dianisidine — Stocks are reported short with the market firm. Contracts are quoted at $1.38 per pound works.

Dinitrophenol—Current stocks low with production retarded by the shortage of phenol. Movement confined mostly to regular consumers.

Diphenyl — This intermediate has worked into slightly better supply condition. Stocks are not free but reasonably prompt shipments might be booked at prevailing prices.

Orthoanisidine — Firm with stocks limited. The lowest price heard was 70c. per pound works.

Phthalic Anhydride—Consuming demand continued at an exceedingly high level with buyers asking for more material than can be produced at present. Buying interest for enamel type finishes is steadily increasing and the market supply position for the basic product is definitely tight.

Shaeffer's Salt — Stocks continued light with production confined to regular dyestuff users. Market steady at the former selling level.

Soda Naphthionate—Buying interest active enough to keep supplies low. The best price heard was 46c. per pound f.o.b. the works. Stringency in basic materials has kept production from increasing.

Tolidine Base—Contracts have been quoted on the basis of $1.00 per pound at the works. Short stocks have kept buying conditions tight.

Coaltar Colors

Buying conditions have not improved appreciably during the past month. Production has been regulated by the amount of raw materials available and has been channeled for domestic use. The steady absorption of output has kept inventories low and shortages have developed in many varieties. Rayon mills and the textile industry in general have shown active interest while inquiry from the leather and paper trades has leaned toward expansion. Higher prices for many basic chemicals and intermediates have furnished a strong background for dyestuffs and the undertone of the market has continued exceedingly firm.

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Other Bethlehem products for the chemical industry:

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BETHLEHEM STEEL

Shaw in Agricultural Research Post

OPD Washington Bureau

The appointment of Dr. Byron T. Shaw as assistant administrator of agricultural research has been announced by Secretary of Agriculture Anderson. Dr. Shaw's appointment becomes effective March 10. He fills the position vacated last October when Dr. W. V. Lambert was appointed administrator.

Dr. Shaw is a soils physicist, and has been in charge of research in this subject in the Bureau of Plant Industry, Soils, and Agricultural Engineering for four years. Since March, 1945, he has also directed investigations on soil management and irrigation. Before coming to the department he was associate professor of agronomy at the Ohio State University.

Hercules Shifts Staff And Opens New Offices

The Hercules Powder Company, Wilmington, Del., has announced two personnel changes and the opening of a new district office.

LeRoy T. Barnette, formerly branch office supervisor of the company's cellulose products department, Wilmington, has been appointed manager of plastics markets of that department. Mr. Barnette joined Hercules in 1942 to work on plastics development.

Joseph M. Carbonara has been appointed the St. Louis district naval stores representative of the company, succeeding Frank W. Hoyt, retired. Mr. Carbonara, a member of the sales division of the naval stores department since 1939, had been assigned to the New York and Boston areas prior to the transfer.

An office has been opened in Cincinnati for the sale of cellulose chemicals to plastics, paint, lacquer and other manufacturers in the area. Henry Grace, formerly head of the department's Washington, D. C., office, has been appointed manager of the new office.

Freeport Sulphur Elects Wells Controller

Richard C. Wells, assistant treasurer of Freeport Sulphur Company, New York, has been elected controller, according to Langbourne M. Williams, jr., president. He has been associated with the company since 1939.

Geologic Reports And Maps Listed

A complete list of preliminary reports and preliminary maps issued by the Geologic and Alaskan Branches of the Geological Survey between January 1, 1945, and January 1, 1946, has been issued in pamphlet form by the Geological Survey, Director W. E. Wrather announced today.

Requests for this pamphlet, "Preliminary maps and preliminary reports released by the Geologic Branch and the Alaskan Branch between January 1, 1945, and January 1, 1946 (List 2)," by W. H. Eckstein, should be addressed to the Director, Geological Survey, Washington 25, D. C.

Gifford & Bennett Plant To Be Completed in March

Stevens A. Bennett, a manufacturer of steel containers since 1909, is now erecting a manufacturing plant for the production of 300-gallon gasoline and fuel oil storage tanks and platforms for farm service. Production is scheduled to start late in March.

The new company will operate under the name of the Gifford & Bennett Mfg. Company, with offices at 406 West 144th street, Chicago. The plant is located at Peotone, Illinois, on the Illinois Central Railroad 35 miles south of Chicago's loop.

Adjoining the new Gifford & Bennett plant is the Continental Bridge Company, structural steel and plate fabricators, which concern is also owned by Mr. Bennett and associates. Continental will continue to manufacture structural and plate steel products including large and special tanks, as well as structural framework, bridges and buildings.

In these enterprises Mr. Bennett has associated with him John W. Gifford as president, who was associated with him in the Wilson & Bennett Manufacturing Company, and the Bennett Manufacturing Company, and more recently was in charge of four barrel plants in India while serving with the U. S. Army as a Major. Other officers are Frank V. Terrell, Roy E. Smith and Ira Flatt.

Chemical Sales Names Kleinsteuber President

Charles J. Kleinsteuber, original organizer of the Chemical Sales Corporation, of Buffalo, has been elected president of the corporation and its affiliated company, the Plant Equipment Corporation. Clark S. Beardslee has been elected vice-president and Mark A. Russell, secretary and treasurer. Both men hold the same title in each company.

Chemical Sales Corporation is an outgrowth of the Nicholas-Vogt Company, organized in July, 1917. The entire stock of this company was purchased in 1922 by Mr. Kleinsteuber, then the secretary of the company. An interest was later sold to the late Earl C. McNutt in 1923, who became president of the corporation, Mr. Kleinsteuber remaining as secretary and treasurer. In 1928 the company became the Chemical Sales Corporation. In 1941 the Plant Equipment Corporation was organized.

Monsanto Augments Phosphorus Production

Construction of additional elemental phosphorus production facilities in Columbia, Tenn., involving an investment of more than $2,000,000 has been announced by the Monsanto Chemical Company, St Louis.

The new facilities will result in over 50 percent increase in Monsanto phosphorus production, the company said, and added that building of new, electrically controlled and operated furnace facilities has been started and is scheduled for completion in 1948.

The Tennessee plant was the first to use large electric furnace units for phosphorus production and was the first to produce elemental phosphorus on a large commercial scale. Because of its work with this plant, which is located in the Tennessee phosphate rock area, the Monsanto Company was presented the chemical engineering achievement award for 1937.

Newton Heads ACS Louisiana Section

Harry P. Newton, assistant director of the Southern Regional Research Laboratory of the Department of Agriculture, New Orleans, has been elected chairman of the Louisiana section of the American Chemical Society, succeeding Dr. Kyle Ward jr., head of the laboratory's cotton fiber research division.

Other new officers of the section, all of whom are with the regional laboratory, are:—Dr. Carl M. Conrad, vice-chairman; Carroll L. Hoffpauir, secretary, and Henry L. Vix, treasurer.

Dr. A. W. Chapman, assistant director of research of the Celotex Corporation; Professor Hans Jonassen, of Newcomb College, and Dr. Leo A. Goldblatt, of the regional laboratory, were named to the society's national council.

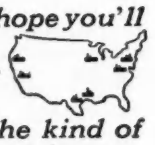
Trade Briefs

Mark K. Pinkerman, since 1946 assistant advertising manager of Reichhold Chemicals Inc., Detroit, has been appointed advertising manager.

'Strodex D,' a synthetic detergent for use on delicate shades has been developed by the textile chemical division of Dexter Chemical Corporation, New York.

...a few words of explanation to our present (and future) customers

We know these are tough times for you people who use *containers. We know you're not getting all the containers you need and we know the difficult spot* *it puts you in with your customers. We know . . . because we're in the same spot with our* *customers. We're forced to operate our steel container plants at only about half* *their total capacity simply because there's not enough steel to go around. That's why Rheem containers are "rationed" . . . we're trying our level best to give each of you a fair share of our limited output.*

We hope you'll understand. And as more steel becomes available, we hope you'll remember that our seven modern drum plants and our coast-to-coast  *container service can solve your packaging problems by giving you the kind of containers you want, when and where you want them. Rheem, 570 Lexington Avenue, New York 22, N. Y.*

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Agricultural Chemicals

Developments in agricultural chemicals last week included the lifting of government regulations from potash. There were also numerous inquiries for the 16,500 tons of French potash to be imported during the next three months. Buying interest was active in all fertilizer chemicals and the lower price for bone meal brought out more demand from the fertilizer trade. The most important exports of fertilizer for the fiscal year ending June 30 are scheduled to consist of 67,000 tons of nitrogen largely in the form of ammonia nitrate. Dried blood was lower with light trading for feeding requirements. Shipments of mixed fertilizers have increased and the movement is expected to gain momentum as the season advances.

Fertilizer tag sales in 16 states in January, based on reports of state control officials to the National Fertilizer Association, were equivalent to 1,435,000 tons. This represented an increase of 7 percent over the equivalent tonnage for January, 1946, and was the largest tonnage on record for any January.

Normal superphosphate production in December was the highest on record during the past four years. Although stocks at the end of December showed a 10 percent increase over those of the previous month, they were at the lowest level for any December during the past four years.

Production figures given below unless otherwise designated are from the Bureau of the Census.

Nitrogenates

Ammonia Nitrate—December production of original solution, including material to be processed to granular, amounted to 83,766 tons, compared with 81,733 tons in November, and 39,929 tons in December, 1945.

Ammonia Sulphate—Aside from coke-oven byproduct material, production in December amounted to 25,009,000 pounds of synthetic, compared with a revised total of 31,821,000 pounds in November and 16,724,000 pounds in December, 1945.

Bone Meal—Lower prices were recorded for the feeding grade last week in the West with sales at $75 per ton. Demand was not of an aggressive character. The fertilizer grade sold at former prices with some improvement in buying interest. Importations of 1,000 bags recorded from Rotterdam.

Dried Blood—Sales at $8 per unit-ton were reported which is a decline of 50c. from the former trading level. Demand was relatively slow with buyers more conservative in their operations.

Soda Nitrate—Demand active and increasing with current supply considerably below buyers' requirements. Importations expected to increase as the season advances, thereby permitting a better distribution for top-dressing. Market supply conditions definitely tight.

Phosphates

Phosphate Rock—Enough phosphate rock was shipped to allow December to attain the highest production level of normal superphosphate for any corresponding month in the past four years. Demand from acidulators has not relaxed and stocks above ground have continued low enough to keep the market in a tight condition with prices firm.

Superphosphate — Census Bureau placed December production of normal 18 percent at 709,122 tons, compared with a revised total of 668,309 tons in November. Stocks on hand at the end of December were 646,278 tons, against a revised total of 584,094 tons on November 30. Production of concentrated 45 percent was 28,134 tons in December, compared with 31,633 tons in the previous month. Stocks on December 31 were 54,713 tons, against 56,167 tons at the end of November.

Market Trends

Prices Advanced

Magnesia arsenate, 6c. per lb.

Prices Reduced

Bone meal, feeding grade, Chicago, $5 per ton.
Dried blood, 50c. per unit-ton.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
72.3	72.3	72.3	71.8

(For Current Prices see Page 9)

Fertilizer Tag Sales: January

	Equivalent tons—January 1947	January 1946	July-Jan. 1947
Virginia	93,614	80,710	333,355
North Carolina	322,218	293,965	848,652
South Carolina	194,895	159,889	485,002
Georgia	200,590	169,643	432,427
Florida	97,233	132,154	639,353
Alabama	167,200	123,300	388,100
Tennessee	15,483	25,452	117,093
Arkansas	25,600	13,900	80,300
Louisiana	22,650	28,460	150,607
Texas	43,074	51,662	214,934
Oklahoma	13,350	7,500	41,795
Total South	1,195,907	1,086,635	3,731,618
Indiana	80,587	83,223	472,220
Illinois	55,950	50,150	202,045
Kentucky	67,253	66,570	165,773
Missouri	26,890	53,087	147,868
Kansas	8,788	4,650	51,914
Total Midwest	239,468	257,580	1,039,820
Grand total	1,435,375	1,344,215	4,771,438

Potashes

Potash distribution has been relieved of government control by the revocation by CPA of schedule 120 to order 300. Domestic production was previously allocated with demand from fertilizer mixers substantially ahead of available stocks. The arrangement to import 16,500 tons from France during the next three months should give a little relief, but the quantity is too small to be of material benefit. According to trade reports, there are individual buyers who would be glad to take the entire importations. Considering that 694,876 tons of domestic muriate were delivered in the first nine months of 1946, the prospective arrivals of French potash do not appear impressive. Russia has some potash from the Russian occupation zone in Germany it will sell to American buyers. Members of the industry interested should contact the Headquarters of the Soviet Military Administration in Germany, Berlin-Karlshorst, Rolandsk 2.

Insecticides

Present supply conditions in insecticides and fungicides average tight with prices firm. Buying interest is increasing with distribution confronted with the uncertainty of transportation and the difficulty in securing containers. The expansion of early buying is significant that dealers, distributors and users have been brought to the realization of possible bottlenecks in shipment and it is hoped the movement will continue to gain throughout the early Spring months. Rotenone is rather short for immediate delivery but sufficient South American stocks have been engaged for adequate later supplies for all essential requirements. Calcium arsenate has shown a tendency to tighten and so has lead arsenate. There appears to be enough cryolite and chloropicrin in sight to meet current wants.

Calcium arsenate production in December registered 754,000 pounds against 1,333,000 pounds in the preceding month. The December lead arsenate production of 3,726,000 pounds exceeded November by 861,000 pounds but the December output was only about one-half the average monthly production of the first six months of 1946.

Magnesia arsenate is higher at 20c. per pound in bags and 30c. in cans, works, freight allowed on 100 pounds or more.

Sulphur and Pyrites

Output of native sulphur in December registered 351,028 long tons, compared with 355,179 tons in the preceding month. December output carried 1946 production to the new historical record of 3,859,642 long tons, according to the Bureau of Mines. Mine shipments in 1946 were again higher than production, as they have been every year since and including 1943, resulting in a further decrease of stocks to 3,769,368 tons. The wartime peak in stocks was 5,148,206 tons, held by producers at the end of January, 1943. Pyrites finding a steady outlet against contract accounts with former prices firmly sustained.

For Late Market Developments, See Page 4

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The farmer is aware of the potash need of his soil, as never before.

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To meet these problems PCA is making "heap big hustle" in every possible way. We'd like to ship you every ton of high grade Muriate you'd like to have, but you know the complications as well as we do. Please be assured, however, that this company is doing its utmost to render the best possible service to you today . . . *that is always PCA's objective.*

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Drugs and Fine Chemicals

Outstanding in a week that brought numerous price developments in the market for drugs and fine chemicals was the very sharp decline in quotations on calomel, corrosive sublimate, red precipitate, and white precipitate —the "hard" ones within the general group of mercurials. With the announcement of definitely lower prices on the above quicksilver derivatives came the information that the entire group will be set up at lower price levels—which means a probable early announcement of new quotations on the "soft" ones. Mercury iodides were also reduced.

No change came in spot prices on quicksilver but prices and price trend had long presaged a probable decline in all mercurial prices; since the previous mercurial schedule was established in July of 1945, mercury had declined fully $58 per flask. All producers of mercurials are expected to reflect the decline in mercury derivatives, a movement that started in a single quarter very late in the previous week.

Menthol was another prominent article. The much higher market that prevailed over the previous week-end was confirmed early in the period under review and local quotations shaped up with those prevailing in the Brazilian market where peppermint oil was said to be short.

Producers of isobutyraldehyde and propionaldehyde established sharply higher prices that were more in line with the cost of production today. No chemically pure pentaerythritol was being offered and the technical article was held at moderately higher prices. Soda sulphate of NF quality and in dried powder form was higher, along with synthetic camphoric acid and corn syrup—to form a nice group of price incompatibles.

Blackstrap molasses users with a penchant for the produce of Puerto Rico may now import the same from the island regardless of the purpose to which it will be put. The Reconstruction Finance Corporation no longer objects to private importation and the Civilian Production Administration gave buyers for private account the green light to private initiative.

Acetone—A strong and very active market prevailed and supply was unable promptly and completely to meet consuming request.

Acetoacetanilide — Supplies were none too plentiful and continued excellence of demand kept prices to a very firm position and curbed any possibility of price competition between sellers.

Acetophenetidin—Although raw materials showed strength and were scarcely plentiful, producers of this item continued to hold prices in complete stabilization. Consumer demand was fully up to normal expectancy.

Acid, Cacodylic—The price range was very wide as to seller and all suppliers of the article declared that firmness characterized the article's position in trade.

Acid, Camphoric—The market on synthetic material was reported to be higher at $7 to $7.25 per pound according to quantity. One quarter offered to quote prices on acid made from natural camphor but would do so only on request of potential buyers.

Acid, Citric—The Civilian Production Administration announced on February 14 that it will now permit private importation of blackstrap molasses from Puerto Rico for any purpose. This might potentially aid producers of citric acid but their present custom is to use beet sugar molasses in producing the article.

Alcohol—According to the most recent report on production as prepared by the Alcohol Tax Unit of the Treasury Department, states producing 1,000,000 gallons or more of undenatured alcohol in the month of December were as follows:—West Virginia, 4,131,287 gallons; Louisiana, 3,807,199 gallons; Indiana, 2,210,461 gallons; Texas, 1,996,791 gallons; Pennsylvania, 1,384,267 gallons; Nebraska, 1,268,474 gallons; and Maryland, 1,016,292 gallons. Thirteen other states also produced alcohol in quantities that ranged from the greatest at 769,069 gallons produced in New Jersey to the smallest at 3,073 gallons in Wisconsin. At the end of December, West Virginia held the largest amount in stock—7,667,567 gallons, and Colorado had the least with 5,816 gallons being of record.

Market Trends

Prices Advanced

Acid, camphoric, synthetic, 50c. per lb.
Bismuth metal, 20c. per lb.
Corn syrup, 15c. per 100 lbs.
Isobutyraldehyde, 13c. per lb
Menthol, 70c. per lb.
Pentaerythritol, tech., 5c. per lb.
Propionaldehyde, 8c. per lb.
Soda sulphate, N.F., dried powder, 3c. per lb.

Prices Reduced

Calomel, 34c. per lb.
Corrosive sublimate, 14c. per lb.
Mecury iodide, red, 18c. per lb.
yellow, 18c. per lb.
oxide, red, 30c. per lb.
yellow, 20c. per lb.
Nikethamide, 50c. per lb.
Red precipitate, 29c. per lb.
Strontium iodide, 20c. per lb.
White precipitate, 23c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
250.8	248.5	247.7	205.8

(For Current Prices see Page 9)

Blue Mass—Reports of a coming reduction in prices were confirmed last week in at least one quarter, but to a late hour in the period, the producer thus reducing prices had yet to make known the new schedule of prices.

Brucine—Stocks continued conservative in size because of limited production here and a rather small importation from British sources. Prices showed substantial strength at all times last week.

Caffeine—Demand for citrated material slumped moderately in some quarters last week. The feeling was that the major part of Winter requirements has been filled and that from now on the normal contraction of demand was to be expected.

Calomel—One producer reduced prices sharply. Others were expected to follow. The new quotation was $2.10 to $2.11 per pound.

Camphor—Excellent demand for synthetic material was reported. Stocks of tablets were on the short side and considerable interest was shown in that form of the article. Exceptionally good movement of technical camphor to the plastics industry was noted. Practically no Chinese or Japanese natural camphor was available in the open market.

Castor Oil—With prices for beans continuing at record high levels, producers advanced prices 2c. per pound on USP and the No. 3 grades of castor oil in a strong market to reflect the fact that beans cost around $275 per long ton at the source — which is Brazil. Demand for oil boiled merrily throughout the past week and supply could not cope with the requirements of manufacturing consumers.

Arrivals of beans last week totaled 52,338 bags, or 7,850,700 pounds, which compared with 60,536 bags, or 9,080,400 pounds, imported during the previous seven days. Total imports since January 1, 1947, became 371,844 bags, or 55,776,600 pounds, which is comparative to the 209,884 bags, or 31,482,600 pounds, arrived in the corresponding period in 1946.

Chicago, Feb. 19.—Ruling prices are:—Cold pressed, U.S.P., 30c. per pound, drums, less than carlots; No. 3, extracted, 29¾c.

Codliver Oil—Some reports suggest that fair results are being achieved in the 1947 fishing in North Atlantic waters. Official figures are lacking, however. The spot market remained very firm on the basis of comparatively small stocks of unsold oil now on spot. Price views of the Norwegian government certainly do not suggest any substantial decline in prices when the new crop begins to come to town.

Corn Syrup—Prices were advanced 15c. per 100 pounds, making carlots $4.95 per 100 pounds; less carlots, $5.10.

Corrosive Sublimate—Prices have been reduced sharply in one quarter and at a late hour in the period, it appeared that other producers were

For Late Market Developments, See Page 4

ALKALOIDS
GLUCOSIDES — DRUG EXTRACTIVES

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figuring costs with a view to reestablishing the article on a price basis more in line with present day prices for quicksilver. Powdered and granular material was down to $1.78 to $1.79 per pound, and crystals were lower at $1.93 to $1.94.

Cream of Tartar—Demand was very steady. Consumers were disposed to anticipate requirements to a reasonable extent and deliveries were said to be mainly satisfactory. Prices held firm.

Dibutyl Sebacate—Prices were withdrawn. Supply was highly insufficient and sellers showed every disposition to become more and more reserved in their approach to new business.

Ephedrine—Winter business has been excellent, but with the approach of Spring, sellers look for a normal recession in demand of a pressing sort. Prices seemed to be exceptionally steady and were mainly aloof from competition.

Ethyl Acetate—Demand ran to high volume and contributed added strength to the prevailing price structure. No surplus of supply was in hand or in sight nor seemed there any reasonable likelihood that consumer requirements would decrease at an early date.

Fishliver Oils—Demand was very good. Although it showed no large rise over the total sales in recent periods, it was maintained at excellent levels and contributed to the maintenance of very steady prices for all kinds of strengths.

Formaldehyde—Consumer requirements continued to reach the spot market in excellent volume. Plastics manufacturers were eager for everything and anything producers could supply and, therefore, it continued to be virtually impossible for makers to create a substantial reserve supply. Prices were well stabilized.

Glycerin—For the first time in several weeks arrivals of foreign glycerin were small—a matter of 115 drums. Manufacturing consumers are greatly dependent on foreign glycerin since the total of domestic production, however large, seems totally inadequate when compared with the total of consuming needs. Demand continued to reach high totals last week and the market was strong in every aspect.

Chicago, Feb. 19.—Ruling prices on glycerin are, for both chemically pure and high gravity, 55c. per pound, tank-car; 55¼c., drums, carlots; 55¾c., drums, less than carlots.

Hexamethylenetetramine—Price stability continued. Demand was reported holding strong and even to show some tendency to expand. Little competition on the basis of price seemed possible.

Isobutyraldehyde—Prices at the works have been advanced very sharply. The new quotation in drums is 33c. per pound, while in quantities of 10 gallons, 36c. has been established.

Menthol—Shipment prices were reported still to be showing substantial strength in Brazil where the market for menthol is still being made despite the fact that China and Japan are due to get back into the world export picture this year. Spot prices maintained all the strength displayed at the close of the previous period when quotations ruled very firm at $7.70 to $8 per pound. The crop of peppermint oil in Brazil has been reported smaller than expected with the result that prices there have hardened substantially. The quoted prices at the source were around $16.80 to $17.10 per kilo—or around $7.65 per pound, minimum.

Mercurials — Quotations on hard mercurials and mercury iodides were reduced by two producers and indications were that others would eventually reflect the present lower price of quicksilver by readjusting the mercurial schedule downward.

When the decline was reported, it was indicated that both soft and hard mercurials were to be reduced, but to a late hour last week, the only prices that became available were those on calomel, corrosive sublimate, red precipitate, and white precipitate. Technical mercury oxides were also expected to follow the downward trend. The new prices announced are reported under the individual items affected.

Mercury Iodides—Red mercury iodide was reduced to $4.32 per pound, and yellow dropped to $4.42.

Methanol—According to a report issued by the Bureau of the Census, production of natural methanol in December totaled 177,000 gallons, which compares with November output at 200,000 gallons and the December, 1945, manufacture of 236,000 gallons. Demand for synthetic methanol took production promptly and consumers were still looking for more goods than the producers could supply on a prompt delivery basis. Prices were very firm.

Molasses—The Civilian Production Administration on February 14 announced that it will now permit the private importation of blackstrap molasses from Puerto Rico for any purpose. Import licenses will be issued under CPA's import order M-63.

The Reconstruction Finance Corporation informed CPA that it has contracted for all the blackstrap it will be able to purchase in Puerto Rico in 1947. RFC had no objection to private buyers attempting to get additional supplies in the island. Since 1943, permission to bring in blackstrap had been withheld in cases where the purchases of prospective importers would be in competition with the public purchases of RFC.

Papaverine—In quantities of 1,000 ounces of hydrochloride, or more, the price is $7 per ounce. Smaller quantities are priced over the range $7.25 to $7.60. Sulphate ranged $7.10 to $7.35 per ounce as to quantity.

Pentaerythritol—Production of C.P. material has ceased. Technical in carlot quantities stands at 32c. per pound while the l.c.l. item ranges 34c. to 36c. per pound, according to quantity.

Propionaldehyde—The market has been sharply raised to 32c. per pound in 55-gallon drums. In 10-gallon lots, 35c. prevailed. All quotations were at the works.

Quicksilver—Prices held at $85 to $89 per flask, being unchanged. Despite that fact, makers of mercurials reduced prices very sharply and set up schedules that in some measure reflect the fact that quicksilver prices today are fully $58 per flask lower than the price prevailing at time when mercurials prices were changed.

San Francisco, Feb. 19.—Interest was well maintained in the quicksilver market here this week. Prices remained steady. Producers quoted metal between $87 and $88 per flask, f.o.b. this city.

Red Precipitate—A sharp reduction to the basis of $2.48 to $2.50 per pound was announced by one producer and it was indicated that others would likely follow the market down. The new schedule more adequately reflects present day production costs when based on the present prices for quicksilver.

Silver Salts—Nitrate held free from further change. Production in December totaled 4,543,000 ounces, which compares with 5,043,000 ounces produced in November and 3,796,000 ounces produced in December, 1945. Silver bullion was also quotably unchanged.

Soda Cacodylate—Prices covered the very wide range of $8.50 to $12 per pound, according to seller. The market was reported to be rather tight, according to some sellers.

Soda Glutamate — Holding very steady under excellent pressure from buyers whose requirements remain at relatively high totals. Prices were very firm but at the same time seemed to be stable.

Soda Sulphate—Dried powder conforming to the National Formulary requirements was priced at 10c. to 10½c. per pound and was reported to be very firm in price and not in liberal supply most of the time.

Strychnine—Supplies of nux vomica have been plentiful for a considerable length of time but manufacturers formerly making a complete line of strychnine salts still confined their offerings to alkaloid and sulphate. All prices were very steady when confirmed last week.

White Precipitate—Prices were reduced to $2.27 per pound.

Trade Briefs

Halogen Chemicals, Columbia, S. C., has been incorporated under the title Halogen Chemicals, Inc., with Dr. Atherton M. Whaley as president.

Metasap Chemical Company, Harrison, N. J., has appointed Miss Emily A. Taylor manager of the industrial advertising divsion, according to Thomas A. Printon, vice-president.

American Pharmaceutical Association's council and the executive committee of the American Society of Hospital Pharmacists have established a division of hospital pharmacy which will further the objectives of both organizations with respect to the development of hospital pharmacy.

FWDA Sets Program For March 4-5 Meeting

OPD Washington Bureau

Forums on economic trends and merchandising trends will feature the joint manufacturer-wholesaler meeting of the Federal Wholesale Druggists' Association, to be held at the Pennsylvania hotel, New York, March 4-5.

Speakers at the forum on economic trends, which will be held at 2:30 p.m., March 4, will include Edward J. Carroll, of Sharpe & Dohme, Inc., Philadelphia, who will discuss "Future Merchandising Trends"; Edgar S. Bellis, Edgar S. Bellis Pharmacy, Bronxville, N. Y., "What the Retailer Expects from the Manufacturer and Wholesaler," and Howard R. Bowen, Irving Trust Company New York, "The Business Outlook."

Speakers and subjects at the forum on merchandising trends, to be held at 10 a.m., March 5, include John Albright, chief of the wholesale trade business division of the Department of Commerce, "Trends in the Drug Industry as Interpreted by Census Reports"; Joseph Kolodny, president of the National Association of Wholesalers, "The Wholesaler in the Modern Distribution Picture"; Frazer V. Sinclair, president of "Drug and Cosmetic Industry," "Why Selective Distribution?" and Frank W. Mansfield, director of sales research for Sylvania Electric Products, Inc., New York, "Decentralizing Sales Management."

Van Evera Heads ACS Washington Section

Dr. Benjamin D. Van Evera, professor of chemistry and coordinator of scientific activities at George Washington University, has been elected chairman of the Washington section of the American Chemical Society. He succeeds Leo A. Shinn of the United States Department of Agriculture bureau of dairy industry, Beltsville, Md.

Irl C. Schoonover of the United States Bureau of Standards was re-elected secretary, and J. J. Fahey of the Geological Survey, was chosen treasurer.

Alkalies Sales Head

Melvin E. Clark, former director of market research for the Wyandotte Chemicals Corporation, Wyandotte, Mich., has been appointed sales manager for soda ash, caustic soda and bicarbonate of soda. The appointment is effective March 1.

Eugene Reelected President Of Wood Chemical Firm

Charles S. Eugene has been re-elected president of the Williamette Valley Wood Chemical Company, Eugene, Ore., whose plant in Springfield recently produced its first wood sugar from waste forest. Other officers are Orville R. Miller, vice-president; Charles E. Ingham, treasurer; H. J. Cox, secretary; W. Noel Thomas, assistant secretary, and Clark G. Van Fleet, general manager.

Maxim Chemical Buys Cliff Street Building

The Maxim Chemical Company, New York, has purchased the five-story building it has occupied at 44 Cliff street for the past five years. It will be used as a warehouse and contain the business offices of the company.

Hipple Heads Section On Atomic Research

OPD Washington Bureau

Dr. John A. Hipple has been appointed chief of the atomic physics section of the Bureau of Standards, according to Dr. E. U. Condon, director of the bureau. In his new post, Dr. Hipple will direct research on the ionization and separation of molecules by electron impact.

Curtis Asks Federal Department of Science

Science, despite its predominant role in the atomic age, is still treated as an orphan by the Federal government, Francis J. Curtis, vice-president of the Monsanto Chemical Company, St. Louis, charged February 19 at a meeting of the Delaware section of the American Chemical Society.

Deploring the manner in which scientific activities are parceled out as a side issue of the various Federal departments, Mr. Curtis demanded that science be permitted to take its place as an integral branch of government, through establishment of a separate Department of Science under a secretary with cabinet rank.

The proposed department should have as its principal aim "the furthering of science, not its control and regulation," and should be administered by men who have devoted their lives to science and are concerned with the broadest problems affecting the whole population, Mr. Curtis asserted.

Miner Labs Forms Entomological Div.

The Miner Laboratories, Chicago, is expanding its activities to include an entomological divsion, which will be headed by Dr. Barbara Miner Parker. Dr. Parker was a research assistant at the New Hampshire State Experiment Station before joining Miner Laboratories several years ago.

Berge Leaves Justice Department May 1

OPD Washington Bureau

Assistant Attorney General Wendell Berge, head of the antitrust division of the Department of Justice since 1943, has resigned, effective May 1. After leaving his post he will be associated with a Washington and New York law firm to be known as Posner, Berge, Fox & Arent.

Pa. Salt Oregon Plant To Be Ready This Summer

The new chlorine, caustic soda and technical DDT plant being built at Portland, Ore., by the Pennsylvania Salt Manufacturing Company of Washington is more than 60 percent completed and is expected to be in operation this summer, according to Fred C. Shaneman, president. The company is a subsidiary of the Pennsylvania Salt Manufacturing Company, of Philadelphia.

Fasey & Besthoff Observes 25 Years

Faesy & Besthoff, Inc., manufacturers' representative, New York, recently celebrated its twenty-fifth anniversary with a dinner in honor of Robert Faesy and Silas Besthoff at the Commodore hotel.

Trade Briefs

Greece Pharmaceutical and chemical industry increased its production 25 percent in November, 1946, over that of the previous month.

John H. Hinse, general manager of the Fellows Medical Company, New York, has been elected to the board of directors. He succeeds F. A. H. Anger, who retired December 31 after almost fifty years service.

Ralph E. Burgess, formerly acting director of the government finance department of the National Association of Manufacturers, has resigned to form his own business as industrial consultant, with offices in New York and Washington.

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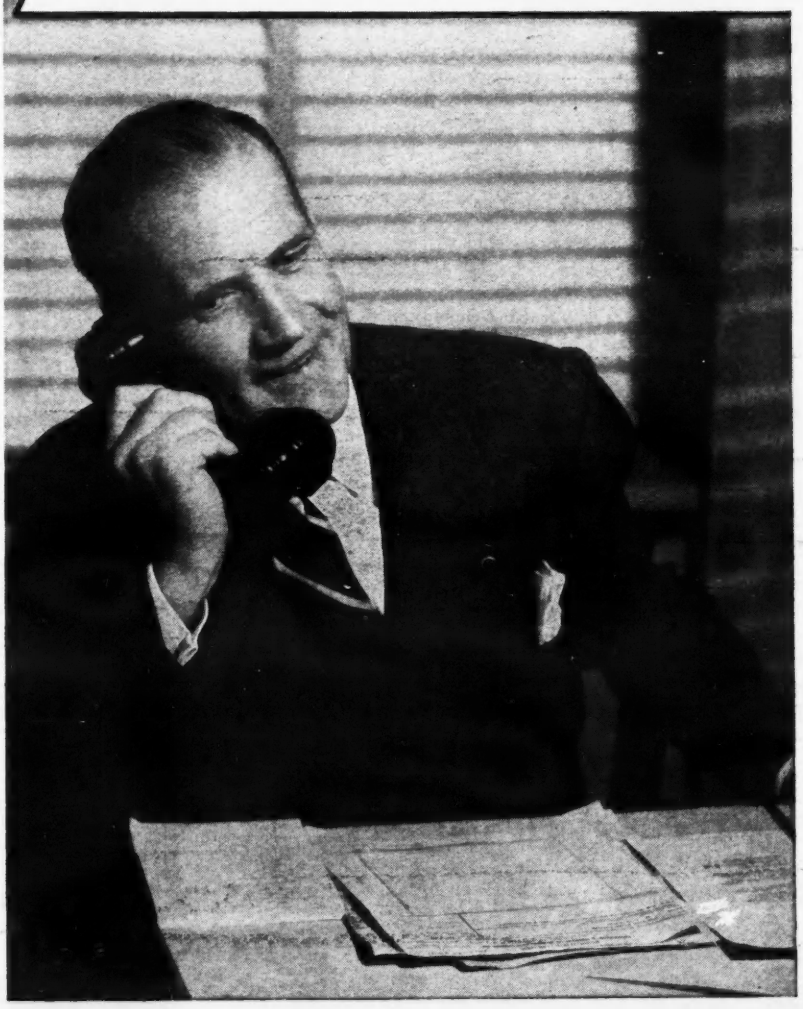

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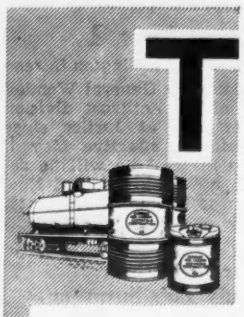

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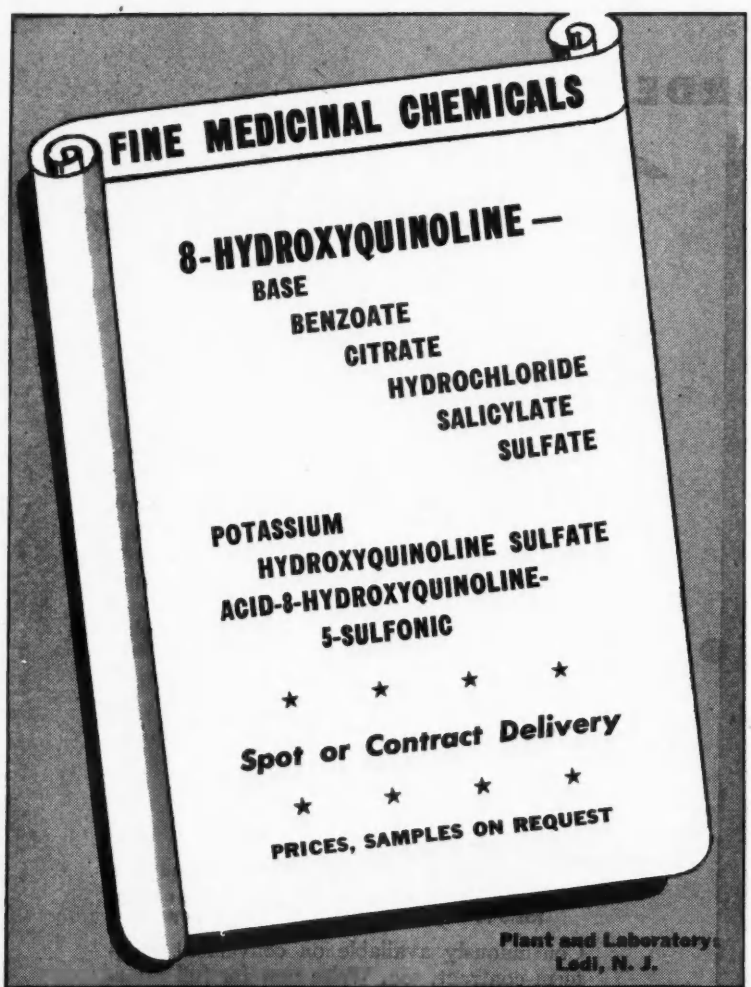

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Fleischmann's Yeast FTC Charges Augmented

OPD Washington Bureau

Additional charges of misrepresentation in the sale of a product variously known as Fleischmann's yeast, Fleischmann's high-vitamin yeast and Fleischmann's compressed yeast are contained in an amended and supplemental complaint issued by the Federal Trade Commission against Standard Brands, Inc., New York.

The new complaint supplements, clarifies and amplifies the allegations of the original complaint, issued in December 1943, branding as false and misleading, advertisements concerning the therapeutic properties of the product and its effectiveness in the treatment of vitamin deficiencies purported to exist among members of the purchasing public.

One of the new charges is that advertisements of the product are false because of failure to reveal that the yeast cakes produced under a formula in use from 1938 to 1944 and 1946 to date will not only contribute no thiamin (vitamin B_1) to the body but will result in depriving the body of considerable amounts of the thiamin obtained from other foods. Continued eating of the product will result in depletion of the body's thiamin "to an extent which may have very serious consequences," the complaint alleges.

Gilmer Named Head Of PMA and CCC

Secretary of Agriculture Clinton P. Anderson has announced the appointment of Jesse B. Gilmer as administrator of the Production and Marketing Administration and president of the Commodity Credit Corporation. He has served as acting PMA administrator and acting president of CCC since last November.

With a background of more than twelve years' administrative experience in several Department of Agriculture agencies, Mr. Gilmer was appointed executive assistant to the president of the Commodity Credit Corporation and was also named secretary of the corporation in 1945. When the Production and Marketing Administration was established in August, 1945, he was named director of its budget and management branch. He was appointed deputy administrator and vice-president of the Commodity Credit Corporation in April, 1946, and acting administrator and acting CCC president in November.

Corporation Earnings

General Candy Corporation

	1946	1945
Net income, year, Dec. 31	$204,965	$170,303
Per share	1.73	1.44

Squibb (E. R.) & Sons

Net income, six months, Dec. 31	3,010,610	2,029,891
Per share	1.79	1.14

American Woolen Company

Net income, year, Dec. 31	20,098,178	8,301,140
Per share	21.86	14.63

Cook Paint & Varnish Company

Net income, year, Nov. 30	1,808,700	534,121
Per share	7.58	1.74

Pennsylvania Salt Mfg. Co.

Net income, 12 months, Dec. 31	2,077,425	1,288,329
Per share	2.77	1.72

The Dow Chemical Company

Net income, six months, Nov. 30	6,099,205	.....
Per share	4.39	...

McKesson & Robbins, Inc.

Net income, six months, Dec. 31	5,411,746	4,050,485
Per share	3.03	2.22

Hercules Powder Company, Inc.

Net income	8,409,843	4,925,800
Per share	3.03	1.66

Harshaw Chemical Company

Net income, Dec. 31, quarter	394,497	.....
Per share	...	...

Nehi Corporation

Net income, year, Dec. 31	1,412,140	901,667
Per share	1.37	.86

New Jersey Zinc Co.

Net income, year, Dec. 31	5,496,938	5,161,243
Per share	2.80	2.63

Norwich Pharmacal Company

Net income, year, Dec. 31	980,725	694,900
Per share	1.23	.87

Texas Gulf Corp.

Net income, year, Dec. 31	1,212,000	666,566
Per share	1.17	.66

China-American Council Discusses Trade Problems

Aid and cooperation from the United States in relieving the serious economic situation in China, so as to increase the potentialities of trade between the two countries, was urged by Dr. V. K. Wellington Koo, Ambassador from China, at a meeting of the China-America Council of Commerce and Industry at the Waldorf-Astoria hotel, New York, February 18.

The Chinese Ambassador's address was the highlight of an all-day conference between members of the council and Chinese officials, technical experts and industrialists on the problems involved in China-America trade relations.

The morning session was devoted to an exposition of the broad economic and legislative policies of China and their potential effect on trade relations with the United States. The afternoon conference was devoted to trade and industrial problems in China as related to trade with the United States.

Canadian Exports Value Down in 1946

Exports from Canada in 1946 were valued at $2,312,215,000, compared with $3,218,330,000 in 1945, according to a report released by the Canadian government. The value in thousands of dollars of various commodities included in the report, and a comparison with 1945, follows:—

	1946	1945
Vegetable fats, edible	1,872	1,519
Balsam	53	44
Oil cake and oil cake meal	58	55
Oils, vegetable, not edible	3,475	2,836
linseed and flaxseed oil	3,197	2,762
Bones, horns and hoofs	383	363
Animal oils, fats, greases, waxes	2,402	5,201
Aluminum	56,030	133,567
Copper	37,005	40,860
Lead	16,846	9,177
Nickel	55,205	54,778
Zinc	27,769	20,378
Cadmium	694	385
Selenium and salts	1,261	843
Asbestos	24,473	22,184
asbestos milled fibers	16,216	15,858
Graphite	143	124
Mica and products	297	305
Petroleum products	4,622	11,252
Abrasives, artificial, crude	11,727	11,741
Acids	2,060	2,830
Alcohols, industrial	108	5,375
Cellulose products	253	133
Toilet preparations	805	1,745
Medicinal and proprietary preparations	5,343	5,740
Explosives	264	29,247
Fertilizers	32,108	30,428
Paints and varnishes	4,407	3,973
Soap	2,103	3,974
Inorganic chemicals, n.o.p.	8,570	12,685
calcium compounds, n.o.p.	2,813	4,027
soda and sodium compounds	4,414	5,420
Chemical products, other	11,567	15,187

Bemis Bag Elects McAusland Vice-Pres.

R. D. McAusland has been elected a vice-president of the Bemis Brothers Bag Company, St. Louis. He joined Bemis in 1900, became manager of the Seattle plant in 1913, and has been a director of the organization and Pacific Coast general manager since 1936. Mr. McAusland will maintain his headquarters in Seattle and direct West Coast operations from that point.

Trade Briefs

Manufacturers Export Managers, Inc., has been formed in New York to deal in chemicals and drugs.

Land Laboratories, Inc., has been formed in New York for the manufacture of pharmaceutical products.

Amea Oil Company, distributor of edible oil products, has purchased a two-story building in Brooklyn, N. Y.

Liquid chlorine production has started in Hacienda Paramonga, Peru. Output is expected to reach 800 tons annually.

John Kupper has been appointed general sales manager in charge of the drug division of the Henry Rosenfeld Cosmetic Corporation, New York.

C. G. Harris Inc., chartered under Delaware laws to deal in flavors, extracts and essential oils, will open offices at 8 Clinton street, Binghamton, N. Y.

National Wholesale Druggists' Association has issued a merchandising calendar which includes a total of sixty-one special days and weeks throughout the year that lend themselves to trade promotion for retail drug stores.

Jefferson Chemical Realigns Staff

Dr. Max Neuhaus, formerly director of research for Jefferson Chemical Company, New York, has been named manager of Jefferson's technical and research department, with Dr. Paul P. McClellan and John C. Paul as assistant managers, the company has annqunced.

Dr. Wm. H. Bowman, formerly market development manager, has been designated sales department manager, and G. W. Larson has joined the department's staff to take charge of its technical sales service work. Mr. Larson was formerly with the Barrett Division of Allied Chemical & Dye Corporation, New York.

Peter Harrison of Jefferson's engineering department has been named purchasing agent, and G R Wick has been named assistant chief engineer.

Jefferson Chemical, formed in November, 1944, by American Cyanamid Company and The Texas Company to produce chemicals from petroleum and petroleum gases, is building a plant at Port Neches, Texas, which is scheduled to begin production during the latter half of this year. Its initial products will include ethylene oxide and ethylene glycol.

Alien Property Vested

Recent orders of the Office of Alien Property, Department of Justice, have listed the following assets:

Kalle & Co., A. G., Wiesbaden-Biebrich, Germany:—Debt or other obligation of $718.71, as of December 31, 1945, and accruals, owing to it by the General Aniline & Film Corporation, New York.

Kofa (American Drug Company) Federal, Inc., Shanghai, China:—Six hundred ninety-two shares of $100 (Chinese) par common stock registered in the name of H. W. Pflug, Asperg, Germany.

U.S. Commerce Chamber Sees Export, Import Gains

OPD Washington Bureau

Gains in both exports and imports this year are forecast in a report on postwar trends in United States foreign trade issued by the Chamber of Commerce of the United States.

Assuming a continuing high rate of business activity, the report estimates merchandise exports may exceed $11,000,000,000 in 1947, compared with $9,700,000,000 in 1946. Imports, it was estimated, may reach $6,000,000,000 in 1947, compared with $4,900,000,000 in 1946.

Clifton Products Elects MeGown Vice-President

Clifton Products, Inc., manufacturer of beryllium chemical compounds, Painesville, Ohio, has elected E. T. MeGown vice-president and assistant treasurer. He has been director of sales since 1943 and also is a member of the board. Prior to joining the company, Mr. MeGown was in charge of the Cleveland office of Mallinckrodt Chemical Works, New York.

Unexcelled Chemical Names Bean Sales Promotion Head

C. Russell MacGregor, president of the Unexcelled Chemical Corporation, New York, announces the appointment of Henry S. Bean as manager of sales promotion and advertising. Mr. Bean formerly was with Lever Brothers, manufacturer of soaps, Cambridge, Mass.

Trade Briefs

Lamond Products Inc. has been organized in New York to deal in cosmetics.

Consolidated Cosmetics and Dana Perfumes has appointed Gene Mullica west coast branch manager.

General Petroleum Corporation has appointed T. L. Miller market research representative of the Oregon division.

Albert E. Van Dusen, formerly general attorney of Texas Company, New York, has been appointed general counsel in charge of the legal department of California Texas Oil Co., Ltd., and affiliates.

Charles A. Neye, marine traffic manager and director of agency operations for Cities Service Oil Company, has joined A. Willard Ivers, Inc., tanker and dry cargo brokers, New York.

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d-DESOXYEPHEDRINE (Base or Hydrochloride)

BISMUTH SODIUM TARTRATE N. N. R.

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APMA Meeting

—Continued from page 7

bility was evidenced by topical and opthalmic ointments, which were found to be above label strength after fourteen months. Penicillin capsules of soft gelatin were found to be quite unstable, the loss in two to three months being an average of 18 percent, and losses ranging up to 61 percent in twelve months.

The paper emphasized that the tests were run on products made with the "early" types of penicillin, which is therefore of presumably lower potency and more impurity than materials produced today.

Vitamin Stability

Evaluation of the Federal government rapid aging test for vitamin product stability, popularly referred to in the industry as the "lend-lease" test, was carried out by five member firms of the association. Dr. W. M. Lauter, Department of Applied Research, Hoffmann-LaRoche, Inc., reporting the results of the committee's work stated that in comparison with other favorite tests used by the industry the lend-lease test appears to have been rather fair, and very close to an ideal.

This test, he said, stipulates label strength of vitamins should be unimpaired after 500 hours at 45 degrees centigrade in the original containers. Such a test is designed to give an indication of the stability of the product after one year in normal storage.

Products tested were half strength, coated, U.S.P. hexavitamin tablets, on which the percent loss under test was noted on their content of vitamin A, riboflavin, ascorbic acid, thiaminhydrochloride and niacinamide. Similar tests were run on hexavitamin capsules.

The tests were varied with respect to temperature and time, Dr. Lauter said, and the data obtained indicated that 500 hours at 45 degrees for vitamin A was a bit too mild, and that a better test for use with this vitamin would be in the range of 550 to 600 hours at the same temperature. It was also felt that the sensitivity of vitamin A to this test might well be somewhat dependent upon the source.

Dr. W. Van Winkle, of the therapeutic trials committee of the American Medical Association discussed the purpose and function of this committee. He said the committee serves as a cooperating and coordinating agency between the clinical investigator and the firm sponsoring therapeutic investigation of a new drug.

The committee obtains from a competent investigator, after first studying the technical merits of the proposed problem with the aid of specialists, an estimate in detail of the costs of a thorough investigation according to Dr. Van Winkle. The funds to defray these costs are then provided by the sponsoring firm. If they are quite high, he said, the committee is frequently able to interest other manufacturers in sharing this burden if they happen to manufacture the same item.

The details of financing the project are a matter of direct contract between the investigator and the sponsoring firm. The committee accepts problems from sponsoring firms or others who may be interested.

Dr. Van Winkle pointed out that a favorable report from the committee on the therapeutic investigation does not guarantee acceptance of the product by the American Medical Association, however.

Folic Acid Uses

Folic acid, which is a comparatively new drug so far as its synthetic production is concerned, is one which exhibits a comparative lack of pharmacology because of its very low toxicity, according to Dr. R. Cunningham, of the Lederle Laboratories. Yet, he said, its effects in aiding the bone marrow to produce red blood cells is quite spectacular. It is very effective, he added, in treating marrowsitic anemia arising from malnutrition, pernicious anemia, and sprew.

J. F. Green, of the Kimble Glass Company, discussed the pH of water stored in glass. Colorimetric and electrometric methods were discussed. For the most accurate pH measurements it was felt that electrometric measurements had to be resorted to, and that indicators were satisfactory for ordinary spot checking.

Discussion following the talk expressed the view that the U.S.P. should be revised to specify control of the pH range of the indicator as well as designating the most refined methods of test. Strong sterilization in glass ampules, it was said, promotes greater increase in pH the average increase being on the order of 1.5.

Other features of the scientific section were discussions on tablet disintegration, stability of penicillin in commercial pharmaceuticles, a new concept of medical direction in pharmaceutical management, and biological effects of atomic bomb radiation.

Materials Handling

Materials handling in manufacturing operations was discussed as a point at which all have an opportunity to cut costs by studying plant layout and processes, according to T. L. Carter of the American Cyanamid Company, who spoke at the session on production. The use of the right equipment in the right way and in the right place was stressed, and such equipment was designated as the fork truck and conveyors.

Handling of containers, such as bags and drums through the use of pallets and the fork truck was claimed to have the greatest versatility and economy. The belt conveyor was considered to be the most versatile of portable conveyors. It was pointed out that in studying the problem of materials handling the requirements of all departments of a plant should be considered with a view to multiplying the use of equipment and cutting down capital investment.

With respect to storage, Mr. Carter pointed out that storage space should be designed from the standpoint of the maximum production rate of the plant. Storage in bulk is always better and cheaper than storage in package form, he said, and the raw materials and finished products of a plant should be studied to determine how bulk storage can be increased.

Ampuls Filling

Sterile filtering, filling, and sealing of ampuls was discussed by Adolph Tiesler of the American Cyanamid Company, who stressed the operating sterile techniques of pharmaceutical manufacture. In the sterile filtering of heat sensitive materials, the numbering of candle type diatomatious earth filters is a good practice, he said, because frequently a rejected batch may be traced to the filter.

Equipment and containers should be sterilized immediately before use, Mr. Tiesler said, and added that pyrogen free water is imperative for washing and rinsing. All solutions, he said, wherever possible, that are to be filtered should contain a preservative. While it is generally considered that heating to 200 degrees Fahrenheit for not less than one hour is necessary to destroy pyrogens, he said, pyrogens are not destroyed by autoclaving, and heating at two hundred degrees Fahrenheit for a much longer time is better practice.

To prevent filter passage of pyrogenous materials, control of the filtering volume and a maximum vacuum or pressure of thirty-five pounds was recommended. Use of asbestos pads and filter presses for larger volume filling involves the same sterile precautionary measures, according to Mr. Tiesler, and autoclaving of the filter press should be done with the valves open.

Aseptic filling of solutions into ampules should be done in sterile rooms of booths with no dirt collecting surfaces such as ledges and so forth, and with sliding doors. The booth should be scrubbed daily, he said, be supplied with sterile air under some slight positive pressure and equipped with sterile lamps. These lamps should be turned on at all times when the operator is not in the booth.

A sterile glass shield should be inserted in front of the filling needle to deflect air currents from the operators breathing. Vials and plugs should be placed convenient to the operator so that the operator makes a minimum of motions and subsequent air currents in the booth while filling. Control of the sterility of the filling booth should be frequently made by exposing media and making bacterial plate counts.

Plugs should be picked up with sterile tweezers, dipped in alcohol and flamed just before insertion into the bottle. Operators should be given a complete change of clothing before entering the booth, and no human hair should be exposed. Operators should be given in their training period some elementary bacteriology so that they have some indication of what they are doing and for the psy-

chological effect of making them sterile conscious, Mr. Tiesler suggested.

Printing Problems

Discussion pro and con of the advantages of a pharmaceutical manufacturer operating his own printing shop demanded considerable attention and was followed by a panel discussion.

It was pointed out that to make the operation of your own print shop economical, it must be run on a business basis just like any other department of the factory. Those in favor of the private print shop claimed the advantages of lowered costs arising from the economical use of equipment and manpower; more efficient runs of small quantities of labels; better control over label accuracy; no advertising and promotional overhead; savings through large purchases of paper stock and anticipation of such requirements in buying; and greater flexibility of service.

Those contending that pharmaceutical manufacturers should not maintain their own print shops pointed out that such shops are seldom manned by competent personnel and usually are managed by low salaried men who are not efficient. These practices, it was said, together with the obsolete equipment usually employed make the private print shop a drain on net profits.

Since printing is essentially a highly specialized field, the manufacturer does not keep up to date on methods and equipment. The dangers of cross unionization were also indicated. It was claimed that the advantages of the private print shop could be obtained through the proper buying relations with the commercial printer, and the abandonment of the private print shop by many large firms was cited as a trend away from this form of activity. Private shops are usually overmanned and become inefficient, it was claimed.

Other features of the production section meetings were a discussion of methods of handling small productions on packaging lines and the specifications and testing of packaging supplies. The production section also featured a display of gadgets for filtration, tablet filling and counting, ampul filling, barrel sampling, and capsule cleaning.

Advanced methods for analysis which dealt with statistical control and the use of the punched hole electric accounting system versus the key driven business machines, were discussed by William M. Blakenship, of Bristol Laboratories, at the meeting of the sales and advertising section.

He contended that the punched hole electric accounting machine, which cannot be purchased but is rented from the manufacturer on a monthly basis, combines all of the work of the ordinary key driven machines and eliminates all the work of transposing information from one form to another.

The original information is punched once on the file card in the proper space, according to Mr. Blakenship, and from the punched card record the machine will do all the accounting operations automatically to give any type of complete report the management may want. He pointed out that the machine has a wide flexibility of applications, accuracy that eliminates almost entirely the personal factor, speed and dependability.

Mr. Blakenship estimated that with this type machine, one-fifth of the accounting personnel required for key operated machines could do the same work more efficiently. He added that the speed at which a report can be obtained from hole punched file cards is about 100 times that which can be obtained through the use of key operated machines.

Costs Allocation

Paul Klemptner, of Paul Klemptner & Co., Newark, N. J., discussed the allocation of costs in the pharmaceutical industry. He presented a system in which all costs of the industry, such as shipping, rent chargeable to the product, sales, advertising, general office expense and research were lumped together as distribution costs. Distribution costs, he said, then became all costs other than manufacturing costs.

E. Allen Newcomb, secretary of the National Wholesale Druggists' Association discussed the merchandising of new pharmaceuticals, with particular attention to prescription specialties. Mr. Newcomb held that the most practical method is selling through the wholesaler-retailer channel.

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Hexamine Said to Cure Hoof and Mouth Disease

Rapid, complete cure of cattle afflicted with hoof and mouth disease is claimed by a Mexican army physician for treatment with hexamethylenetetramine by injection.

The physician, Dr. Marco Antonio Gaxiola, a graduate of Johns Hopkins, told a United Press representative that he had "absolutely wiped out all trace of hoof and mouth disease" in a herd of 150 cows near Mexico City. He expressed his confidence in the positiveness and permanence of the cure. The treatment was given over a period of ten days, and Dr. Gaxiola said that none of the cows had shown any signs of reinfection.

Chemical Engineers

—Continued from page 7

eliminated by a recycle system; lumpiness, non-uniformity of product, and intermittent packing rates are eliminated by the con tant grease rate, thorough blending, and the accurate control of temperature.

Hydrolysis of Fats

H. D. Allen, W. A. Kline, E. A. Lawrence, C. J. Arrowsmith and C. Marsel, all of Colgate-Palmolive-Peet Company, Jersey City, N. J., presented a paper which described a new, continuous process for converting fats and oils into fatty acids and glycerin by hydrolysis with water.

According to the authors, for producers splitting 3,000 pounds per hour or more of oil, the new process offers relatively cheap, simple, continuous conversion of the fat to give a 97 percent yield of fatty acids of good quality and an aqueous glycerin solution of 15 per cent concentration or better, which is readily concentrated and refined to chemically pure glycerin.

Synthetic Rubber

An indication of the painstaking work and engineering skill that went into war developments was given by Dr. G. H. Hanson, of the Phillips Petroleum Company, who discussed butane dehydrogenation and traced its development from small scale laboratory experiments to full plant scale. He said that work began in 1929 and the first large plant opened in 1943, a period of fourteen years development by chemical engineers in pilot plants.

C. W. Perry, also of Phillips Petroleum, voiced the opinion that German chemical engineers did not do as good a job as Americans in making synthetic rubber, even though the Germans had a much earlier start. Although in some fields the Germans were ahead of the United States, such as the manufacture of gasoline from bituminous coal, he said, in the field of automatic control of chemical processes their developments were inferior.

W. H. Pahl, of the synthetic rubber plant of the National Synthetic Rubber Corporation, Louisville, said that improvements in both quality and costs in the production of synthetic rubber have progressed to a point where it can be stated that American made rubber is truly competitive with the natural product.

A new process for the production of synthetic rubber, which allows it to be turned out in a continuous stream, was described by M. A. Youker, of E. I. du Pont de Nemours & Co., Wilmington, Del. He reported that the method avoids the use of chemicals and can be operated continuously in a machine.

Mr. Youker said that it was desirable to produce the rubber without the necessity of adding chemicals that must be removed later by the use of excessive labor.

Engineers of the chemical engineering department of the Tennessee Valley Authority at Wilson Dam, Ala., have developed a method of producing alloys of aluminum and silicon from ordinary clay, according to a paper presented by M. M. Striplin, Jr., of the TVA.

In applying the method, he said, clay is first heated in a kiln to drive off the water, and is then fed along with coke to an electric furnace, which is operated at a high enough temperature to cause the coke and clay to react and form an aluminum-silicon alloy.

Fermentation Methods

A new fermentation technique, a malt clarification method, which will result in a higher quality alcohol, a by-product breakfast food and a saving of yeast consumption was described by F. A. Hilinski and C. L. Lovell, of Purdue University.

The authors detailed the present method of fermenting the whole mash and revealed that by-products of a higher value can be recovered if an intermediate step of mash clarification is introduced between the cooking and fermenting operations.

Trade Briefs

Edward W. Brady, branch manager in Dallas, Tex., for Mead, Johnson, has been elected president of the Medical Service Society. The organization comprises detail men representing pharmaceutical firms in Dallas.

McKesson & Robbins, Inc., New York, has announced that excavation has been completed for its new warehouse and offices in Fargo, N. D. When completed the building will become the headquarters of another of the company's wholesale drug divisions.

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Labor Relations

—Continued from page 7

the supreme court's decision, walking and "preliminary activities" time is compensable subject to the foregoing two conditions. If the amount of such walking and preliminary time satisfies these two rules, then the employer is liable for damages, a liability that continues as long as the supreme court's decision in its Mt. Clemens case stands. Nor can any district court, Judge Picard included, change this "law." A portal-to-portal claim thus remains valid and damages must be granted if the total of walking and "preliminary activities" time exceeds that amount which would represent "*de minimus*" or trifling and is "in light of the realities of the industrial world," whatever they both mean.

Issues in Mt. Clemens Case

What then is the meaning and effect of Judge Picard's decision in the Mt. Clemens case? The case becomes understandable if we keep in mind the precise issues that were before the court. Clearly they were not the two foregoing principles of law making valid a portal-to-portal claim for walking and "preliminary activities" time when the rules of "*de minimus*" and "industrial realities" are satisfied. What the issue before Judge Picard involved was the application of these principles of law to the case at hand and its own facts. Here the court first had to decide what was the amount of the walking and "preliminary activities" time. Its next step was then to determine whether such total time was "*de minimus*" and "in light of realities of the industrial world." It is from the court's answer to these questions that the Mt. Clemens case derives its true import and effect.

On the question as to what is "*de minimus*," one of the perplexing and troublesome ambiguities resulting from the supreme court's decision was that it did not lay down any definite yardstick or figure as to what constitute "*de minimus*" walking and "preliminary activities" time. Still another unanswered question was whether the walking time was to be limited only to the time consumed in walking *to* work on the employer's premises after the punching of the timeclock or was it to include the time walking *from* work during lunchhour and at the end of the day.

Judge Picard addresses himself on these latter two issues. Taking up the question of walking time from the employer's place of work to lunch, here the court cites the supreme court's opinion to the effect that only walking time which "bore no relation whatever to the convenience and necessity of the employees" and was "pursued necessarily and primarily for the benefit of the employer and his business" should be compensatory. The court then went on to say that an employee who is on his way to lunch is walking there for his own convenience and necessity and not "necessarily and primarily for the employer and his business." It points out that the cafeteria enables the employee to eat his meals in clean and comfortable surroundings, to get away from his work, meet his fellow employees, and talk about the employee's own common pleasures. While a cafeteria in a plant may help the employer by increasing productivity, it is just as important to the employees, if not more so, especially when they are on piecework, the lunchhour providing for their relaxation and an opportunity to make more money when they get back to their jobs.

The court, accordingly, concludes that, under all the circumstances in the case, it cannot by any stretch of the imagination consider that walking time at noon bore any (necessary and primary) relation to the employer's benefit and felt that any contrary conclusion is "specious and deceptively beautiful." It, therefore, concluded that the noonhour walking time should be eliminated and not included in computing the total amount of walking time

—To be continued.

Trade Briefs

Eastman Kodak Company has elected to the board Adolph Stuber, vice-president, and Marion B. Folsom, treasurer.

Edward L. Patton, manager of glass advertising and sales promotion for the Pittsburgh Plate Glass Company, has been appointed consultant on glass advertising.

Harold K. Hochschild, president of the American Metal Co., Ltd., New York, has been elected chairman of the company's board of directors. Charles E. Stott, general manager of the company's Mexican operations, has been elected a director.

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CARAWAY SEED—100 bgs, Rudolph L Friedler, Rotterdam—50 bgs, Levy & Levis Co, Rotterdam—200 bgs, Louis Furth, Inc, Rotterdam

CARDAMOM SEED—20 cs, W E Martin & Co, Tuticorin

CARNAUBA WAX—455 bgs, American Cyanamid & Chemical Corp, Natal—468 bgs, American Cyanamid & Chemical Corp, Fortaleza—387 bgs, W R Grace & Co, Fortaleza—88 bgs, W M Allison & Co, Fortaleza—200 bgs, Wessel, Duval & Co, Fortaleza—55 bgs, Cornelius Products Co, Fortaleza—234 bgs, S C Johnson & Son, Fortaleza—22 bgs, Wax & Rosin Products, Fortaleza—125 bgs, Wessel, Duval & Co, Parnaiba—563 bgs, American Cyanamid & Chemical Corp, Parnaiba—125 bgs, Wm Diehl & Co, Parnaiba—126 bgs, Cornelius Products Co, Parnaiba—63 bgs, Wessel, Duval & Co, Parnaiba—63 bgs, Baird Rubber & Trading Co, Parnaiba—125 bgs, Wm M Allison & Co, Parnaiba—7 bgs, Enco Chemical Corp, Parnaiba

CASEIN—500 bgs, Bankers Trust Co, Buenos Aires—500 bgs, J Henry Schroeder Banking Corp, Buenos Aires—2,500 bgs, American British Chemical Supplies, Inc, Buenos Aires—300 bgs, Buenos Aires

CASTOR BEANS—6,855 bgs, Baker Castor Oil Co, Fortaleza—846 bgs, Baker Castor Oil Co, Parnaiba—3,000 bgs, Baker Castor Oil Co, Cabedela—1,016 bgs, Spencer Kellogg & Sons, Cabedela—9,000 bgs, Baker Castor Oil Co, Maceio—6,500 bgs, Baker Castor Oil Co, Pernambuco—1,693 bgs, Spencer Kellogg & Sons, S Luiz do Maranhao—5,094 bgs, Baker Castor Oil Co, Bahia—3,387 bgs, Baker Castor Oil Co, Santos—15,547 bgs, Spencer Kellogg & Sons, Santos

CASTOR OIL—502 dms, Bunge Corp, Pernambuco—125 dms, Wessel, Duval & Co, Rio de Janeiro—125 dms, Balfour, Guthrie & Co, Rio de Janeiro—125 dms, Bate, Robinson & Co, Toronto, Rio de Janeiro—200 dms, East Asiatic Co, Halifax, Rio de Janeiro

CELERY SEED—12 bgs, Norwalk Mills, Marseilles

CERAMIC COLORS—2 cs, National City Bank, London

CHICLE GUM—226 bls, F Huber & Co, Tampico—174 bls, Mexican Exploitation Co, Tampico—44 bls, Bank of New York, Vera Cruz

CINCHONA BARK—337 bgs, J Berlage & Co, Inc, Singapore

CITRONELLA OIL—2 dms, Jasins Importing Co, Singapore

CIVET—1 cs, Fritzsche Bros, Aden—1 cs, Aden

CLAY, UNWROUGHT—56 cs, E E Marks & Co, Chicago, Antwerp

COBALT, FINE—50 cks, African Metal Corp, Antwerp—metal, 200 cks, African Metal Corp, Antwerp—oxide, 215 cks, African Metal Corp, Antwerp

COD OIL—86 dms, Atlas Refining, Inc, St Johns—165 dms, J D Irwin & Co, St Johns

CODLIVER OIL—176 dms, Peder Devold Oil Co, Leixoes

COLOCYNTH PULP—23 bls, J L Hopkins & Co, Port Sudan

COLOMBO ROOT—226 bgs, Standard Bank South Africa, Dar Es Salaam

COLUMBITE ORE—1,491 bgs, Union Carbide & Carbon Corp, Lagos

COPAL GUM—177 bgs, Balfour, Guthrie & Co, Matadi—436 bgs, U S Industrial Chemical Co, Matadi—6,156 bgs, O G Innes Corp, Matadi—1,066 bgs, H P Winter & Co, Matadi

CORNSILK—91 bls, Excel Shipping Co, Genoa

CORN SYRUP—45 cks, Balfour, Guthrie & Co, Buenos Aires

CORUNDUM, CRYSTAL—240 bgs, Watson, Geach & Co, Beira

COTTON LINTERS—407 bls, New England Waste Co, Santos

CUBE ROOT—29 bls, Morris Hess & Co, Callao—10 bls, G Friedlander, Callao

CUMIN SEED—30 bgs, Wm M Allison & Co, Beirut

DAMMAR GUM—70 bgs, Gillespie-Rogers-Pyatt Co, Singapore—50 cs, U S Industrial Chemical Co, Singapore—70 bgs, W R Grace & Co, Singapore—350 bgs, American Cyanamid & Chemical Corp, Singapore—105 bgs, G W S Patterson & Co, Singapore—350 bgs, 100 cs, O G Innes Corp, Singapore—128 bgs, S Whiterbourne & Co, Singapore—25 cs, G W S Patterson & Co, Singapore

DIGITALIS LEAVES—10 bls, R J Prentiss & Co, Leixoes

DYES, ANILIN—45 dms, L & R Organic Products, Rotterdam

EBONITE RESIDUE—1,715 bgs, A Schulman, Inc, Santos

ELDER BERRIES—40 cs, R J Prentiss & Co, Leixoes

ERGOT—20 cs, W E Martin & Co, Leixoes

FUEL OIL—97,980 bbls, Gulf Oil Corp, Curacao—321,940 bbls, Standard Oil Co of N J, Aruba—99,142 bbls, Shell Oil Co, Curacao

FULLERS EARTH—200 bgs, L A Salomon & Bros, London

GALL—7 tcs, Wilson & Co, Santos

GAMBIER, BLOCK—220 cs, Littlejohn & Co, Singapore

GAMBOGE GUM—12 cs, Singapore

GERANIUM OIL—15 dms, Matadi

GINGERINE—3 cs, Orbis Products Corp, London

GLUESTOCK—435 bls, Darmstadt, Scott & Courtney, Buenos Aires

GYPSUM—8,734 tons, United States Gypsum Co, Deep Brook

HENBANE LEAVES—27 bls, Inland Alkaloid Co, Tipton, Alexandria—68 bls, Alexandria—33 bls, S B Penick & Co, Alexandria

HENNA LEAVES—15 bls, Bank of London & South America, Port Sudan

HERBS, CRUDE—7 bls, Eli Lilly & Co, Antwerp—12 bls, Antwerp—78 cs, S B Penick & Co, Buenos Aires—83 cs, R J Prentiss & Co, Buenos Aires

IPECAC ROOT—10 bgs, S B Penick & Co, Cristobal

IRON OXIDE—597 bbls, C K Williams & Co, Malaga—500 bgs, Reichard-Coulston, Inc, Malaga—116 bbls, J Lee Smith & Co, Malaga—154 bbls, C J Osborn & Co, Malaga—74 bbls, T H Deutz Co, Malaga—500 bgs, Smith Chemical & Color Co, Malaga

JABORANDI LEAVES—135 bls, Biddle, Sawyer Corp, Parnaiba

JUNIPER BERRIES—64 bgs, Bilbao

LAVENDER LEAVES—9 bls, Excel Shipping Co, Genoa

LAVENDER OIL—1 dm, A Chiris Co, London

LEMON OIL—2 dms, Fritzsche Bros, Vera Cruz—100 qtr cs, Bank of the Manhattan Co, Messina—100 qtr cs, Guaranty Trust Co, Messina

LEMONGRASS OIL—14 dms, Vera Cruz

LITHARGE—500 dms, Tampico

MACE—35 cs, Singapore

MANZANILLA FLOWERS—55 bgs, New Orleans, Bilbao

MARJORAM LEAVES—400 bgs, Louis Furth, Inc, Arica—200 bgs, Balfour, Guthrie & Co, Arica

MASTERWORT ROOT—4 bls, Excel Shipping Co, Genoa

MENTHOL—50 cs, Volkart Bros, Santos—50 cs, Biddle, Sawyer Corp, Rio de Janeiro

MICA—75 cs, Eugene Munsell & Co, Calcutta—50 cs, A O Schoonmaker Insulation Co, Calcutta—430 bgs, Fleischman, Burd Co, Vera Cruz—249 bgs, Richmond Mica Corp, Luanda—59 cs, Westinghouse International Co, Luanda—230 cs, A O Schoonmaker Insulation Co, Rio de Janeiro—72 cs, Ford Radio & Mica Corp, Rio de Janeiro—53 cs, Eugene Munsell & Co, Rio de Janeiro—15 cs, H G Brake & Co, Rio de Janeiro—503 cs, Cosmopolitan Trading Corp, Rio de Janeiro—18 cs, National City Bank, Rio de Janeiro

MINERAL SUBSTANCE—430 dms, African Metal Corp, Matadi

MUSTARD SEED—500 bgs, R T French Co, Rochester, Rotterdam—300 bgs, National City Bank, London

NUTMEGS—40 bgs, Max Van Pels, Singapore—300 bgs, Otto Gerdau Co, Singapore

OITICICA OIL—247 dms, L N Jackson & Co, Fortaleza

OLEYL ALCOHOL—2 dms, Yardley & Co, London

OLIBANUM GUM—15 cs, Irving Trust Co, Aden—400 cs, Aden

OLIVE OIL—38 dms, National City Bank, Malaga—71 dms, Chase National Bank, Malaga—32 dms, Sterling National Bank, Malaga—335 dms, Malaga

ORANGE OIL—38 cs, Volkart Bros, Santos

OPIUM—563 cs, Merck & Co, Istanbul

OURICURY WAX—56 bgs, Strohmeyer & Arpe Co, Rio de Janeiro

PALM OIL—2,195 tons, Balfour, Guthrie & Co, Matadi—394 dms, Balfour, Guthrie & Co, Matadi

PAPAIN—25 cs, W E Martin & Co, Mombassa—25 cs, National City Bank, Mombassa—33 cs, S B Penick & Co, Mombassa

PAPRIKA—400 bgs, Chase National Bank, Valparaiso—200 bgs, M J Golombeck, Lisbon—300 bgs, R F Downing & Co, Casablanca—50 bgs, L & R Millen, Casablanca

PAREIRA BRAVA ROOT—20 bgs, Peek & Velsor, Rio de Janeiro

PATCHOULI OIL—1 dm, Firmenich & Co, Mombassa—1 dm, Brown Bros-Harriman Co, London—1 dm, London

PEATDUST—360 bls, New Amsterdam Import Co, Glasgow

PEPPER, BLACK—120 bgs, Polak Trading Co, Vera Cruz—150 bgs, Atlas Brokage Co, Singapore—1,358 bgs, N V International Credit En Handel, Singapore—281 bgs, London—178 bgs, Vera Cruz—256 bgs, Singapore—white, 365 bgs, N V International Credit En Handel, Singapore—144 bgs, Vera Cruz—606 bgs, Singapore

PETROLEUM, CRUDE — 218,445 bbls, Standard Oil Co of N J, Las Piedras—246,241 bbls, Standard Oil Co of N J, Puerto La Cruz—62,181 bbls, Standard Oil Co of N J, Cartagena—104,842 bbls, California Oil Co, Las Piedras—122,251 bbls, Socony Vacuum Oil Co, Puerto La Cruz

PINE OIL—1 cs, Perkins, Goodwin Co, Gothenburg

POPPYSEED—100 bgs, Rudolph L Friedler, Inc, Rotterdam—100 bgs, Levy & Levis Co, Rotterdam—100 bgs, Louis Furth, Inc, Rotterdam—100 bgs, Sokol & Co, Chicago, Rotterdam—100 bgs, Rotterdam

POTASH HYDROXIDE—30 cs, Bergstrom Trading Co, Inc, Gothenburg

PYRETHRUM FLOWERS—375 bls, McLaughlin, Gormley & King, Minneapolis, Mombassa

RESIN—1 cs, Perkins, Goodwin Co, Gothenburg

SABADELLA SEED—90 bgs, Royal Bank of Canada, La Guaira

SAFFRON—5 cs, First National Bank, Chicago, Genoa—1 cs, General Olive Oil Co, Leixoes

SAGE LEAVES—101 bls, Tobias & Co, Antwerp

SCHEELITE ORE—454 bgs, Brown Bros-Harriman Co, Cabedela

SENNA LEAVES—81 bls, E Meer & Co Tuticorin—50 bls, J L Hopkins & Co, Port Sudan—40 bls, E Meer & Co, Port Sudan—88 bls, R J Prentiss & Co, Port Sudan—70 bls, Bank of London & South America, Port Sudan

SESAME SEED—500 bgs, Archibald &

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SHARK LIVERS—7 bbls, International Fisheries Corp, Callao
SHARK LIVER OIL—24 dms, Karr, Ellis & Co, Cristobal
SHELLAC—200 bgs, P N Rowe, Calcutta—250 bgs, Gillespie-Rogers-Pyatt Co, Calcutta—1,000 bgs, Wm Diehl, Calcutta
SIZING MATERIAL—4 cks, Mars Textile Co, Gothenburg
SODA BICARBONATE—195 bgs, Chemical Bank & Trust Co, London
STORAX—127 cs, S B Penick & Co, Istanbul—38 cs, Geo Lueders & Co, Izmir—49 cs, Fritzsche Bros, Istanbul
STEATITE—2 bgs, Whittaker, Clark & Daniels, Alexandria
SUNFLOWER SEED OIL—1,984,127 lbs, Commodity Price Stabilization Corp, Montreal, Buenos Aires
SODA HYDROXIDE—230 cs, Bergstrom Trading Co, Gothenburg
TALC—200 bgs, Charles Mathieu, Inc, Genoa—600 bgs, J P Reiss Co, St Johns
TALL OIL—325 dms, Guaranty Trust Co, Gothenburg
TANKAGE—1,545 bgs, Wessel, Duval & Co, Buenos Aires
TAPIOCA FLOUR—4,047 bgs, Corn Products Refining Co, Puerto Plata—1,000 bgs, Bankers Trust Co, Parnaiba—1,667 bgs, American Key Products, Inc, Parnaiba—1,000 bgs, Gorman, Eckert & Co, Canada, Rio de Janeiro—600 bgs, Imperial Coffee & Spice Co, Hamilton, Rio de Janeiro
TAR, MEDICINAL—5 dms, Malaga
TARA—1,529 bgs, H Hollander, Salaverry—625 bgs, Salaverry
TARAXACUM—6 bls, Peek & Velsor, Buenos Aires
UMBER EARTH—973 bgs, Reichard-Coulston, Inc, Larnaca—253 bgs, J Lee Smith & Co, Larnaca
VALONIA—513 bgs, River Plate Import & Export Corp, Izmir—cups, 4,862 bgs, Barkey Importing Co, Izmir
VANILLA BEANS—87 cs, Geo Uhe & Co, Marseilles
VETIVER OIL—1 dm, Lautier Fils, Inc, Rio de Janeiro
WATTLE BARK—712 bls, Hammond & Carpenter, Durban—extract, 499 bgs, Bingham & Co, Mombassa
WOLFRAM ORE—600 bgs, Philipp Bros, Arica—190 bgs, Wah Chang Trading Corp, Leixoes—199 dms, 185 kgs, 2,293 bgs, Banca De Londers America Del Sud Ltd, Buenos Aires
WOODTAR—2 cs, Perkins, Goodwin Co, Gothenburg
WORMWOOD—33 bgs, Trust Co of North America, Genoa
YARROW—5 bls, Excel Shipping Co, Genoa

Baltimore

CASSIA—210 bls, Singapore
CHROME ORE—5,607,100 lbs, E J Lavino & Co, Beira
FERROMANGANESE—2,000 tons, Bethlehem Steel Co, Durban
MACE—80 cs, Singapore
MANGANESE ORE—1,500 tons, E J Lavino & Co, Vizagapatan
PEATMOSS—500 bls, 40 hlf bls, Eelsingh & Lugtigheid, Rotterdam—300 bls, Half Moon Mfg Trading Co, Rotterdam
VANADIUM ORE—4,495,410 lbs, Vanadium Corp of America, Beira

Boston

ASBESTOS—480 bgs, Asbestos Textile Co, Beira
BONES—380 bgs, Wilson & Co, Buenos Aires—564 bgs, Rogers Mfg Co, Santos
COD OIL—126 dms, C H Powell Co, Inc, St Johns
FISH OIL—100 dms, First National Bank, Callao
GLUESTOCK—60 bls, J Gorvers Co, Buenos Aires—520 bls, 215 rolls, H Remis & Co, Santos—413 bls, H Remis & Co, Rio de Janeiro
PETROLEUM, CRUDE—101,961 bbls, Colonial Beacon Oil Co, Caripito

Norfolk

FERTILIZER—7,744 bgs, Monsanto Chemical Co, Rotterdam
PEATMOSS—300 bls, Half Moon Mfg Trading Co, Rotterdam

Philadelphia

BONES—1,241 bgs, Baugh & Sons Co, Buenos Aires
CANARY SEED—845 bgs, Stein Trading Co, Buenos Aires
CASTOR OIL—414 dms, Masland Dura Leather Co, Singapore
CHROME ORE—6,500 tons, E J Lavino & Co, Beira
GLYCERIN—115 dms, Pastenak Co, Buenos Aires
PAPRIKA—300 bgs, R T French Co, Lisbon
PEATMOSS—300 bls, Half Moon Mfg Trading Co, Rotterdam
PEPPER, BLACK—672 bgs, N V International Credit En Handel, Singapore—225 bgs, Singapore
SHELLAC—150 bgs, P N Rowe, Calcutta
VANILLA BEANS—8 cs, Tradesmens National Bank, Marseilles

Trade Briefs

Alpha Brush Company, New York, has changed its corporate name to Sub-One Corporation.

Cleveland Paint, Varnish and Lacquer Association held a special February luncheon at the Cleveland hotel to see the New Jersey Zinc Company's film "Modern Paints, a Triumph of Research."

Interstate Oil Compact Commission has released a handbook containing information of its background, organization, functions and purposes. Copies may be obtained from the commission's office, Box 3185, Oklahoma City.

Maas & Waldstein Company, New ark, N. J., manufacturer of specialized production finishes, has announced the development of a new line of enamels that bake or air dry to a finish closely resembling brilliant aluminum. The enamels are known as "Britelume."

Hercules Names Copeland Assistant Plant Head

John G. Copeland, jr., has been appointed assistant superintendent of the Hercules, Cal., dynamite and ammonia plant of Hercules Powder Company. For the past eight months he has been assistant manager of the Hercules-Louisiana, Mo., which produces ammonia for the government.

Mr. Copeland joined Hercules in 1936 and worked as an analytical chemist at the company's Experiment Station, Wilmington, Del., and at the Kenvil, N. J., Hercules, Cal., and Bacchus, Utah, explosives plants, during his first three years with Hercules. In 1939 he returned to Hercules, Cal., as shift supervisor. Ten months later he transferred to the dynamite plant at Bessemer, Ala., as acid supervisor.

When Radford Ordnance Works, Radford, Va., was constructed early in 1941 for production of military explosives, Mr. Copeland went there in the acid department. Later he was appointed assistant smokeless powder superintendent at the Hercules-operated Sunflower Ordnance Works, Lawrence, Kansas. He was appointed assistant superintendent of the Bacchus plant in November, 1945, a post he held until transferring to Missouri Ordnance Works in July, 1946.

Arco Names French Sales Head of Finishes Division

John W. French was recently appointed sales manager of the production finishes division of The Arco Company, paint manufacturer, Cleveland. Mr. French joined the Arco organization in 1940, and served as assistant sales manager since his return from the Army in February, 1946.

Professional Services

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(For further details see listings in OPD Green Book.)

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333 West 52d St., New York 19, N. Y.

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Biological Laboratories
16 Clinton St., Brooklyn 2, N. Y.

Johan Bjorksten, Ph.D.
185 N. Wabash Ave., Chicago 1, Ill.

Bureau of Chemistry
2 Broadway, New York 4, N. Y.

Colburn Laboratories, Inc.
431 S. Dearborn St., Chicago 5, Ill.

Di Cyan & Brown
12 East 41st St., New York 17, N. Y.

The Edwal Laboratories, Inc.
732 Federal St., Chicago 5, Ill.

Dr. J. Ehrlich
153 S. Doheny Dr., Beverly Hills, Calif.

Ellis-Foster Company
4 Cherry St., Montclair, N. J.

Ralph L. Evans Associates
250 East 43rd St., New York 17, N. Y.

Evans Research & Development Corp.
250 East 43rd St., New York 17, N. Y.

Food Research Laboratories, Inc.
48-14 33rd St., Long Island City 1, N.Y.

E. M. Laning Company
433 Stuyvesant Ave., Irvington 11, N.J.

LaWall & Harrisson
1921 Walnut St., Philadelphia 3, Pa.

Leberco Laboratories
36 Roosevelt Ave., Bloomfield, N. J.

Dr. Fred Linsker
607 West 43d St., New York 18, N. Y.

Molnar Laboratories
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James C. Munch
306 South 69th St., Upper Darby, Pa.

Orthmann Laboratories, Inc.
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Public Service Testing Laboratories, Inc.
381 Fourth Ave., New York 16, N. Y.

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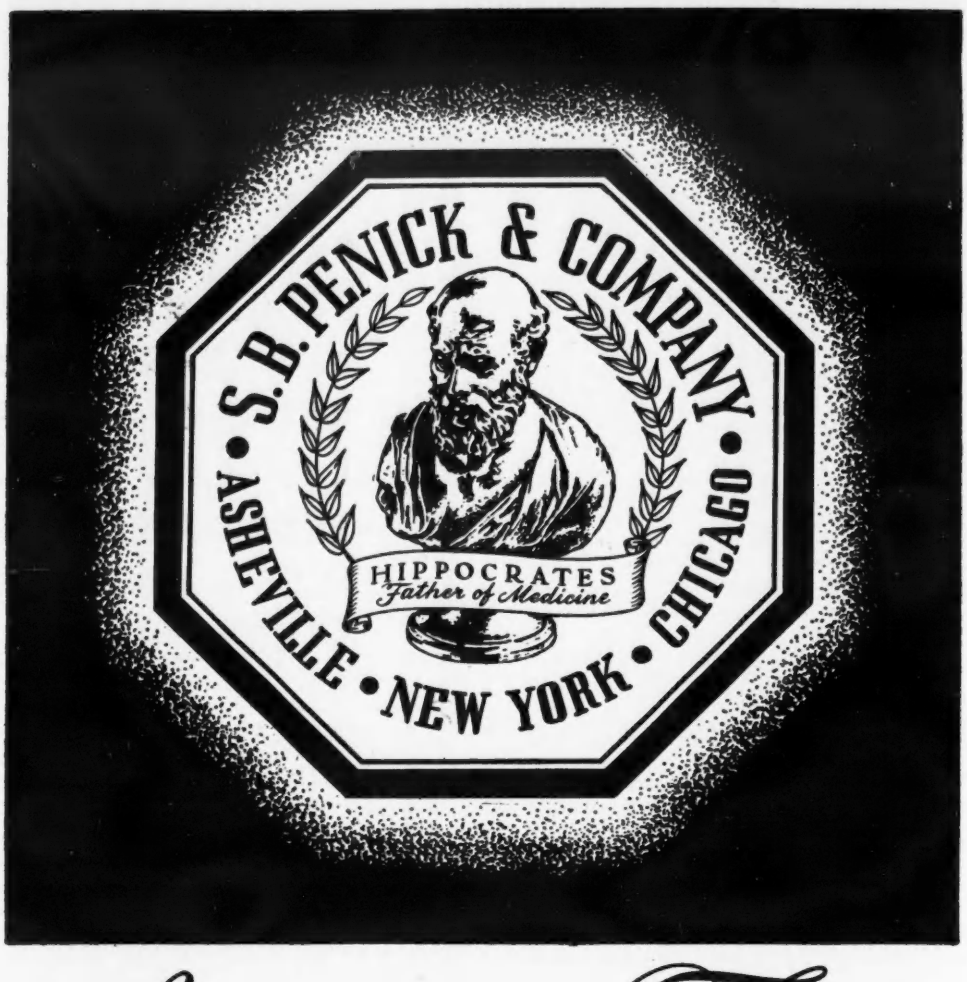

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Botanical Drugs, Spices, Gums

The fact that Spring draws close to the heels of Winter was evident in the botanical drug market last week. Evidence in the form of a rising demand for botanical drugs used especially during the Spring months was sighted in the local market and such medicinals underwent excellent request.

However good demand may have been in the market as a whole, price trend continued to be mainly downward. Further price concessions developed in belladonna leaves, Chinese cantharides, goldenseal, and rhubarb root with spearmint leaves being an added starter. Only burdock root sold at an advance. Even condimental items moved mostly in buyers' favor.

A very excellent export business with Mexico and some other silver currency countries has been knocked into a cocked hat by the weakness and decline in silver bullion prices. Orders from such countries have dried up almost entirely and export trade has turned sere and yellow because of currency depreciation; the power to buy has disappeared into the depths of devalued money.

Reports from Europe seem more encouraging regarding the collection of botanical drug crops in 1947. While none of the advices suggests major expansion in the availability of export merchandise, they do suggest that more goods will likely be available if the trend toward reconstitution of national life and the livelihood of citizens continue along the route to which it now seems to be committed.

Would that the outlook for domestic drug collection were as good. However, collection of botanical drugs in this country must compete with high wages paid in industrial plants that mushroomed in the south during the war and many of which are going strong. Some workers in industry did return to the southern mountains at the end of the war but the financial returns from the back-breaking task of drug collection failed and likely will continue to fail to attract those who migrated to the low lands where lush wages at comparatively easy work prevailed.

Market Trends

Prices Advanced

Drugs

Burdock root, 2c. per lb.

Other Articles

Nutmegs, W. I., 2c. per lb.
Poppy seed, Dutch, 1c. per lb.
Thyme, Spanish, ½c. per lb.

Prices Reduced

Drugs

Belladonna leaves, 5c. per lb.
Cantharides, Chinese, whole, 30c. per lb.
powdered, 30c. per lb.
Goldenseal root, whole, 40c. per lb.
powdered, 40c. per lb.
Jaborandi leaves, 1c. per lb.
Rhubarb root, whole, 5c. per lb.
powdered, 5c. per lb.
Spearmint leaves, 1c. per lb.

Other Articles

Allspice, Mexican, 1c. per lb.
Cassia, Batavia, No. 1, regular, 14c. per lb.
Saigon, all medium, 2c. per lb.
4-10-4, 5c. per lb.
Dillseed, dewhiskered, ½c. per lb.
Ginger, Jamaica, No. 3, ¾c. per lb.
Mustard seed, Montana oriental, spot, ½c. per lb.
source, ½c. per lb.
Paprika, Chilean, ½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
282.4	286.3	284.2	277.0

(For Current Prices see Page 9)

Balsams

Copaiba—No further price decline was reported but the market was relatively easy and subject to rather more than the usual amount of competition between dealers. Stocks have gained considerably.

Fir—Canadian balsam was reported scarce on spot and high in price in the primary market. The recent advance was fully maintained. Oregon balsam was also on the firm-to-strong side and demand was good.

Peru—Although the article still tended to move in buyers' favor, no further recession was noted during the past week. Demand was steady but moderate in size.

Tolu—The market still revealed a competitive tendency among suppliers but further reduction in prices awaited further development of the supply situation. At the moment, stocks are fair.

Barks

Angostura — Not stocked beyond moderate quantities and holding very firm at price levels comparatively high and much in excess of the normal quotation on the item.

Cinchona — Among a substantial number of botanical drugs reaching here during the past week was 337 bags of cinchona bark from Singapore. This is one of the first if not actually the first shipment of this bark to arrive from the Far East. Of course, it goes into the government stockpile against which allocations are made to the manufacturers of the derivative products. But the fact that some bark has reached here from the world's largest primary market for cinchona is a hopeful sign for the future of far-eastern exports of this bark.

Cottonroot—Although demand has not pressed strongly of late, prices have displayed substantial stability. Relatively high prices have been paid for the bark collected this year and that has acted to the support of spot quotations current for some time past.

Beans

Calabar—Very little was said to be due for later arrival and practically nothing was available on spot last week. The to arrive price remained at 65c. per pound.

Tonka—Sales were in fair volume. The call was routine in character but reached the spot in steady fashion and gave considerable support to recently prevailing prices. Competition was negligible.

Berries

Cubeb — Prices became slightly steadier after they reached a point more closely in line with replacement quotations from the source. The market was fairly well stocked last week and the call was not impressive for volume.

Juniper—During the past week, 64 bags arrived from Bilbao, Spain, giving the market added reason to remain competitive and subject to price shading when important business was in sight.

Flowers

Arnica—Few had spot goods and still fewer had goods certain to arrive from foreign parts in the foreseeable future. The market remained nominal in practically all of its aspects.

Chamomile—Inquiry for Hungarian type flowers was an improvement over that in recent weeks and some quarters reported sales volume at slightly higher levels. Prices remained very firm on spot and reflected the relatively high cost of the article at the source.

Linden—The market was rather quiet last week. Demand was routine and involved jobbing quantities that failed to reach a volume likely to strengthen the recently easier price position on spot.

Malva — Replenishment of spot stocks has not been substantial and in

Imports Detained by FDA

Week Ended February 14, 1947

New York

Cassia, 100 bales: insect infested.
Cumin seed, 1,468 bags: dead insects; filthy.
Elder berries, 8 barrels: filthy.
Ginger, 1,097 bags: insect bored; insect filth.
Nutmegs, 700 bags: wormy and moldy.
Olive oil, 88 drums: decomposed; filthy.
Orange peel, 49 bags: insect infested.
Pepper, black, 604 bags: excess siftings and pickings; water damaged.
Protamine zinc insulin, 1 parcel: composed of insulin which is not from a certified batch.
Rhubarb root, 2 cases: insect bored and contains insect filth.
Sage leaves, 517 bags: not official variety; insect infested.

For Late Market Developments, See Page 4

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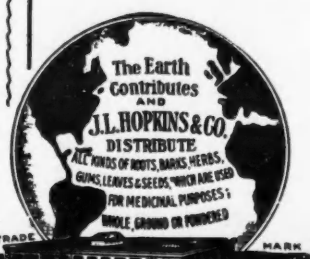
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some respects the position of this article was close to being nominal. Prices were relatively high when compared with the normal position of the item but conditions do not suggest an early return to normality.

Gums

Aloe—The entire market displayed strength in price and fair volume as to demand. During the past week 28 cases arrived here from Capetown, South Africa, a point supplying the bulk of aloe consumed in this country at the present time.

Benzoin—Stocks gained further last week by the arrival of 206 packages from Singapore. Prices failed of prompt decline but the tendency was downward in keeping with the ability of importers to compete more actively for the fair business reaching the market now.

Gamboge—Gradually, stocks of the article are increased. During the past week, 12 cases came in from Singapore. The fact that several lots have reached here of late has turned the market definitely in the direction of eventual normality of supplies.

Olibanum—A substantial arrival—415 cases—from Aden was noted last week. The gum reached a market generally steady in undertone and rather firm in price because of the well maintained prices in the primary market where sellers were not apt to accept many bids against offerings made.

Herbs and Leaves

Aconite—More arrivals from Genoa, Italy, were noted last week. They totaled 2 bales and even so limited a quantity was welcome on spot where unsold stocks were distinctly small.

Belladonna—During the period just ended, arrivals totaled 44 bales from Genoa, Italy. Spot prices eased further and quotations ended the period at $1.70 to $1.75 per pound. The trend continued to be toward more competitive conditions.

Digitalis—Europe is shipping more of this article than had been the case a short time back. Imports of 10 bales from Leghorn, Italy, was noted during the past week. And the market held very steady.

Henbane — Manufacturing requirements are more readily met by reason of the steadier arrivals from foreign parts. During the past week, 33 bales came in from Alexandria, Egypt, and 95 bales from Port Sudan. Prices continued in well stabilized position.

Henna—Addition of 15 bales from Port Sudan was noted. Demand was excellent and steady at all times. Prices were well maintained.

Jaborandi — More goods arrived from abroad and prices were slightly lower at 25c. to 28c. per pound, quoted according to seller and quantity. Arrival of 135 bales from Brazil was reported.

Senna—A strong market continued to absorb offerings steadily and at well maintained quotations. Imports during the period under review totaled 254 bales from Port Sudan and 81 bales from Tuticorn, India.

Spearmint—Under competitive circumstances last week, sales were made at 52c. to 53c. per pound, being a slight recession in price.

Miscellaneous

Cantharides — Prices on Chinese flies failed of further decline; the market was $5.45 to $5.75 per pound for whole and $5.70 to $6 for powder. Russian flies remained nominal, being unable to compete with the flies of China.

Colocynth Pulp—Prices held steadily despite the arrival of 23 bales from Port Sudan last week.

Corn Silk—Perhaps good luck will attend the 91 bales that reached here from Genoa, Italy, last week. The goods will need plenty of good fortune if they are to clear the Food and Drug Administration.

Papain — Some say prices should begin to ease because of the numerous arrivals of this article during the past several weeks. However, the goods arriving were not bought at low prices in the primary market. Imports from Mombassa last week totaled 83 cases.

Roots

Belladonna—Importation of 40 bales from Genoa, Italy, was reported last week. The arrival position has improved much in recent weeks and

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The monopoly was shaken in 1805 when M. Fortin took a male root from Mozambique to Madras, India, and it's origin and use in Mozambique was given in "Asiatic Researches" by Dr. Andrew Berry of the Calcutta Botanical Gardens in 1811.

Monopoly was broken in 1830 when Sir W. J. Hooker completely identified male and female roots brought from Oibo, East Africa, by Capt. W. F. Owen, in 1825.

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goods are now more readily obtainable.

Burdock — Under competitive circumstances last week, goods sold at a minimum of 57c. per pound and upwards of 65c. was asked in some quarters. The supply was far from excessive in size.

Colombo — Replenishment of spot supplies has started. The 226 bags that arrived last week from Dar Es Salaam, British East Africa, was the first lot to reach these shores for a long period of time.

Dandelion — Buenos Aires, Argentina, is shipping slightly more of this root. Last week, 6 bales reached here and more was said to be coming.

Goldenseal — Prices failed to decline further. At the end of the previous week, they had dropped to $8.50 to $8.75 per pound for whole and $9 to $9.25 for powder. The market continued to be dull enough to encourage moderate competition.

Rhubarb — Competition set whole root down to $1.30 to $1.35 per pound and powder became available at $1.40 to $1.45.

Seeds

Celery — The limited quantity of French seed recently available here has been moved into consumption. Prices became nominal at 31c. per pound last week.

Dill—Dewhiskered seed was shaded to 11c. to 11½c. per pound in a very quiet spot market.

Mustard—Yellow Montana seed on spot was quoted firm at 20c. to 20½c. per pound after a period of no prices being obtainable. Oriental seed futures at the source were fractionally lower at 8c. to 8½c. and spots were down to 10½c. to 11c.

Sabadilla — An arrival of 90 bags was reported, coming from Venezeula. Exportation from Argentina has been reserved for the Argentine Institute for Trade Promotion.

Spices

Allspice — The market was more competitive and quotations on futures were reduced to the basis of 17c. to 17½c. per pound.

Cassia — More Batavia cassia became available. Gradually is that article being exported from the source even though it has to be "bootlegged" to Singapore because of restrictions still prevailing in Java. The offering last week was No. 1 regular which became available at 37c. to 38c. per pound. In the previous week, broken shortstick came on the market at 36c. to 37c. Saigon all medium was down to 30c. to 31c. per pound and 4-10-4 was also so quoted.

Ginger—African root failed to decline further. No. 3 Jamaica root was down to 15¼c. to 15¾c. per pound.

Mace—Transactions in East Indian mace to arrive were reported last week

Nutmegs — West Indian nutmegs were fractionally lower at 37½c. to 38c. per pound.

Pepper—The sole change came in an offering of Louisiana long capsicums which was quoted at 30c. to 31c. per pound, f.o.b., source.

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Essential Oils, Other Aromatics

Fifteen price reductions were effected in the essential oils last week as the downward progression of quotations in this market seemed destined to continue unabated. Natural Italian bergamot oil and Ceylon citronella oil advanced in price in the American market due to higher replacement costs.

In mid-November, 1944, the sharp decline in prices for Italian bergamot oil, with the entry of the first large quantities of that oil during wartime, broke the price index sharply until February 26 of 1945 when there was a recovery making the index figure 210.6. Last week, the re-entry of Italian orange oil contributed materially to dropping the index to 210.4, just two-tenths of a point lower than the figure for the same week two years earlier. The last quoted price for Italian orange oil had been $8 per pound, and last week prices ranged from $4.50 to $4.75 per pound.

Improved stocks, developed through the definitely better import situation, and buyer conservatism combined to force prices downward last week, as they had for several weeks previous. Imports of all types of oil were in far better volume than they had been a year earlier, and there were indications that further development of stocks could be expected within the year. With the relief of acute shortages, the scrambling of buyers to obtain spot stocks slowed considerably, and there has been a reflection of this fact in the price declines which have typified the market during recent weeks. Stocks continued to move well last week but there was no air of urgency in the acquisition of oils, and trading was carried on at a more normal pace.

Market Trends

Prices Advanced

Bergamot oil, nat., Italian, 20c. per lb.
Citronella oil, Ceylon, 15c. per lb.

Prices Reduced

Angelica root oil, $5 per lb.
Caraway oil, N.F., 10c. per lb.
Cedarleaf oil, U.S.P., 5c. per lb.
Celeryseed oil, 50c. per lb.
Geranium oil, Algerian, 50c. per lb.
Bourbon, 50c. per lb.
Guaiacwood oil, 20c. per lb.
Hemlock oil, 20c. per lb.
Lavandin oil, 20c. per lb.
Lignaloe wood oil, Mexican, 10c. per lb.
Lime oil, dist., Mexican, 25c. per lb.
Ocotea cymbarum oil, 5c. per lb.
Orange oil, Messina, $3.50 per lb.
Pineneedle oil, 25c. per lb.
Spruce oil, 15c. per lb.
Ylang-ylang oil, Bourbon, 50c. per lb.
First grade, 50c. per lb.
Second grade, 50c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
210.4	220.1	223.9	222.6

(For Current Prices see Page 9)

Essential Oils

Angelica Root—Prices for root oil were reduced $5 per pound on the inside of the wide range late the previous week, with offerings ranging from $110 to $275 per pound. Interest among dealers and consumers alike was slight, and it was reported that there was little trading. Stocks in the American market were negligible.

Bergamot—Natural Italian oil advanced 20c. per pound on the inside last week, reflecting higher replacement costs and the abandonment of a cautious attitude by some buyers. Prices ranged from $4.95 to $6.50 per pound, and were continuing firm. Buyer interest showed moderate improvement last week, after the several weeks of persistent disinterest, and lower-priced stocks were moving in some quarters.

Caraway—NF oil prices dropped 10c. per pound on the inside last week, establishing a range from $5.50 to $6.75 per pound. This change was the second reduction in successive weeks, and was attributed to both the lower costs in the Netherlands market and the narrow buyer interest in the United States. Prices were easier throughout the range, and there was little movement of oil in the market.

Cedarleaf—Prices for U.S.P oil were lowered 5c. per pound on the inside last week, with oil being offered at prices ranging from $2.45 to $2.75 per pound. Demand was slight, and it was reported that the meager stocks available in the American market were static. There were no imports recorded during the period under review.

Celeryseed—Advances of 50c. per pound, which had been reported three weeks earlier, were withdrawn last week as prices reverted to the range of $17 to $22.50 per pound. Interest in the item had cooled considerably following the moderate flurry of activity which prompted the increase, and there was very little trading in the market last week.

Citronella—Ceylon oil prices were advanced 15c. per pound on the inside last week in reflection of the scarcity of stocks in both the primary and American markets, and the resultant higher replacement costs. Buyer interest was not particularly active in any quarter of the market, and replenishment of stocks was slow and erratic. Offerings last week ranged from $2.25 to $2.75 per pound. Imports were limited to two drums of oil shipped from Singapore during the period under review.

Geranium—Prices for Algerian oil were reduced 50c. per pound on the inside late the previous week, and those for Bourbon oil were reduced an equal amount on the inside last week, as stocks of both types of oil showed definite improvement. Algerian oil was offered in a range from $15.50 to $28 per pound last week, and Bourbon oil prices ranged from $14 to $22 per pound. Buyer interest was well maintained, and movement of both types was reported to be steady. Imports during the period under review totaled fifteen drums from the Belgian Congo.

Guaiacwood—Prices dropped 20c. per pound on the inside last week as buyer interest was thoroughly retarded. The price range established by the change was from $2.50 to $4 per pound. Stocks in some quarters of the market were reported to be slightly improved, but these stocks were generally too limited to arouse an active buyer inquiry. Imports during recent weeks had been small and although there had been some hope that relief would develop shortly, there were no imports last week.

Hemlock—Limited buyer interest prompted a reduction of 20c. per pound on the inside in quotations for this item last week, establishing a range from $2.35 to $2.75 per pound. Stocks throughout the market were reported to be fairly large, but there was little inquiry and movement was slow and irregular. All prices were reported easing in the face of the dull market.

Lavandin—Prices for this item were reduced 20c. per pound on the inside last week, in the first price variation since the middle of November, 1946, which was the last of a series of downward revisions. Prices last week ranged from $3.80 to $5 per pound, and it was reported that buyer interest was essentially routine. There were no imports during the week, and had been none reported for several months.

Lavender—Trading in all types of lavender oil was maintained at a high level last week, with particular attention being shown to Spanish spike oil. All prices held steady throughout the period, and there were no variations reported. Stocks were generally adequate, and there were indications that there would be further improvements in supply within the next few months. Imports during the week were limited to one drum of oil shipped from England.

Lemon—The arrival of 200 quarter cases of lemon oil from Italy and two drums from Mexico aroused considerable interest last week, as stocks of all types of oil had been growing progressively tighter, and imported oils were particularly limited. Buyer interest in both domestic and imported oils was brisk, and movement was good. Prices throughout the market were held firm, but there were no variations during the period under review.

Lemongrass—Buyer interest continued steady last week as it was reported that fairly large stocks were available in some quarters of the market, and that some material was mov-

For Late Market Developments, See Page 4

ing at prices well below the quoted figures. Prices in the Indian market continued to firm slightly, but there was no reflection of the advances in American quotations during the week. Imports noted during the period totaled fourteen drums of oil from Mexico.

Lignaloe Wood—Mexican lignaloe wood oil prices dropped 10c. per pound on the inside late the previous week, establishing a range from $4.50 to $5.75 per pound. Buyer interest was reported to be limited in many quarters, and the nature of the market was strictly routine.

Lime—Prices for distilled Mexican oil were reduced 25c. per pound on the inside last week, as prices ranged from $5 to $7.20 per pound, depending on the dealer. This reduction came close on the heels of lowered prices for West Indian distilled and expressed oil, which occurred during the previous week, and slackening buyer interest was considered the cause. Stocks of all oils were reported to be good throughout the market, although imports had dwindled during recent weeks, and there were none during the period under review.

Ocotea Cymbarum—Late the previous week one dealer quoted the item 5c. per pound lower than the previous inside price, although it was reported in some quarters that prices were firmer. The range established by the change was from 85c. to $1 per pound. Stocks were generally in good supply, and buyer interest was well maintained. There were no imports during the period under review.

Orange — Quotations for Italian orange oil were forthcoming last week for the first time since 1944 when the price was $8 per pound. Offerings last week ranged from $4.50 to $4.75 per pound, and it was reported that buyer interest was prompt and extensive. Domestic oils continued to move well, and all prices were held firm by the active trading. Imports during the week totaled thirty-eight cases from Brazil.

Patchouli—Buyer interest continued to improve slowly last week as stocks were gradually developing in the American market to a point where trading could assume a more normal nature. Prices were steady at the new levels established by earlier reductions, and there were no further variations reported during the period under review. Imports during the week were limited to three drums from Kenya Colony, British East Africa.

Pineneedle—Prices for this oil were reduced 25c. per pound on the inside late the previous week, establishing a price range from $3 to $3.65 per pound. Interest was reported narrow, and movement was slight in most quarters of the market. Imports during the week were limited to one case of oil from Sweden.

Savin—Outside quotations for this oil were reduced $1 per pound last week, establishing a range from $6.25 to $16 per pound. Interest was narrow, and there was a definitely routine market. There were no imports noted during the period under review.

Spruce—Prices for spruce oil were reduced 15c. per pound on the inside last week, establishing a range from $2.35 to $2.75 per pound. There was very little activity in the persistently dull market, and trading was essentially limited to routine.

Vetiver—Stocks of oil in the American market continued tight last week and there was little indication that adequate relief would be forthcoming within the next few weeks. Haitian oil was in fairly good supply, and trading was primarily confined to that type. Prices for both types of oil held firm and were without change during the period under review. It was reported that one drum of oil was received in the American market from Brazil during the week.

Ylang-Ylang—Prices for Bourbon, first, and second grade ylang-ylang oils were reduced 50c. per pound on the inside last week as stocks of Philippine oils continued to wield an important influence on the situation in the American market. Bourbon was offered in a range from $16.50 to $24 per pound; first grade from $12.50 to $17; and second grade from $7.50 to $14. Buyer interest was showing definite improvement as the prospects for acquiring large stocks from the Philippines improved, and trading was at a high level. There were no imports during the period under review.

Aromatic Chemicals

Raw material shortages, container problems, and consistent demand continued to plague the aromatic chemicals producers last week as there was little variation in any aspect of the market. Stocks of essential oils used in the manufacture of derivatives showed steady gains, but other materials vital to full-scale production, remained tight and there were indications that there would be no improvement in supply during 1947. Steel drums were not available in large numbers last week, and it was vitally

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Inorganic Chemical Production: 1945 and 1946

OPD Washington Bureau

Preliminary compilations by the Bureau of the Census provide data on United States production of a number of important inorganic chemicals in 1945 and 1946. In the appended tabulation of these data, the figures in parentheses indicate the number of plants from which reports of production were obtained. These numbers in some instances include a few government-owned plants, but not all such plants are represented. The production figures for the second half of 1946 in some instances include plants previously not reported on because of their military status.

		1946	1945
Ammonia, synthetic, anhydrous (10)	tons.	725,537	548,655
Ammonium nitrate, original solution (26)	tons, 100%.	734,881	421,487
sulphate, synthetic (5)	pounds.	301,616,000	177,726,000
Calcium arsenate (15)	pounds, 100%.	35,892,000	*25,779,000
carbide (13)	tons.	670,138	672,586
phosphate, dibasic (8)	pounds, 100%.	71,597,000	58,931,000
monobasic (5)	pounds, 100%.	75,786,000	62,726,000
Carbon dioxide, liquid and gas (57)	pounds.	217,241,000	236,084,000
solid (43)	pounds.	644,699,000	659,169,000
Chlorine (46)	tons.	1,065,120	1,192,081
Chrome green (19)	pounds, C.P.	17,871,000	9,068,000
yellow and orange (23)	pounds, C.P.	43,123,000	44,080,000
Hydrofluoric acid (14)	pounds, 100%.	42,921,000	86,377,000
Hydrogen (88)	cubic-feet.	17,595,000,000	22,247,000,000
Lead arsenate (14)	pounds.	56,667,000	70,522,000
Methanol, natural (16)	gallons, 100%.	2,363,000	2,814,000
Molybdate-chrome orange (11)	pounds, C.P.	5,196,000	2,280,000
Muriatic acid (51)	tons, 100%.	341,580	407,571
Nitric acid (21)	tons, 100%.	573,827	447,088
Oxygen (222)	cubic-feet.	10,866,000,000	13,943,000,000
Phosphoric acid, from phosphate rock (8)	tons, 50%.	454,658	366,003
from phosphorus (12)	tons, 50%.	446,028	364,850
total (19)	tons, 50%.	900,686	730,943
Silica gel (9)	pounds.	49,082,000	133,973,000
Silver nitrate (8)	ounces, 100%.	49,856,000	57,812,000
Soda ash, ammonia-soda, wet and dry (9)	tons, 98-100%.	4,284,231	4,375,017
finished, dense	tons, 100%.	1,546,746	1,444,022
light	tons, 100%.	2,079,959	2,285,532
natural	tons, 100%.	212,552	181,783
caustic, electrolytic, liquid (39)	tons, 100%.	1,129,939	1,129,312
solid (15)	tons, 100%.	192,952	213,449
lime-soda, liquid (9)	tons, 100%.	682,932	734,993
solid (9)	tons, 100%.	226,340	244,016
Sodium bicarbonate, refined (5)	tons, 100%.	188,945	174,949
bichromate and chromate (6)	tons.	85,490	80,672
metaphosphate (4)	tons, 100%.	26,088	27,925
phosphate, dibasic (8)	tons, 100%.	59,328	62,673
monobasic (7)	tons, 100%.	11,016	14,783
tribasic (9)	tons, 100%.	94,963	88,731
pyrophosphate, tetrabasic (7)	tons, 100%.	52,149	43,447
silicate (29)	tons, anhydrous.	408,357	410,686
sulphate, anhydrous (10)	tons, 100%.	122,573	91,340
crystal (19)	tons, 100%.	166,887	200,782
Sulphuric acid, chamber (116)	tons, 100%.	3,103,744	3,169,197
contact, gross (103)	tons, 100%.	6,214,698	6,352,939
new	tons, 100%.	5,665,561	5,517,873
fortified spent	tons, 100%.	549,132	835,066
gross production (174)	tons, 100%.	9,318,437	9,522,136
Zinc yellow (13)	tons, C.P.	†2,130	12,320

* Eleven months, to avoid disclosure of individual data.
† Nine months, to avoid disclosure of individual data.

necessary that consuming manufacturers return drums to suppliers so that commerce could continue at even a moderate pace. Buyer interest was at a high level, but there was some concern in certain quarters that the resistance of consumers of finished goods, such as soaps and cosmetics, might wield considerable influence on demand for aromatic chemicals. Still, it was believed that demand would not slacken sufficiently during the year to permit aromatic chemicals producers to meet all orders.

Cosmetics Formulas Of Germans Described

OPD Washington Bureau

The original formulas for hundreds of Germany's best face creams, perfumes, soaps, hair tonics, shampoos and many other cosmetic products are contained in a report now available from the Office of Technical Services, Department of Commerce. Of particular interest to the American cosmetic industry are the German-developed synthetic waxes, oils, emulsifiers and aromatics.

The report was prepared for OTS' Technical Industrial Intelligence Division by Dr. Stephen A. Karas, a consulting chemist of New York, formerly associated with Helena Rubenstein, Inc. The formulas were obtained in Germany from such leading manufacturers as I. G. Farbenindustrie, Agfa, Schimmel, Heine, Mousson, and Haarmann & Reiner.

When foreign raw materials became scarce the Germans developed various synthetic products for use in the cosmetic, perfume and soap industry. Of these, the synthetic glyco waxes and cholesterol, extracted from wool fat, were considered superior to natural products. Cholesterol formed the base of the well-known Nivea vanishing cream. Two of the most popular German perfumes, Mimikri and Mystikum, were made of natural oils used in conjunction with aromatic synthetics.

In the manufacture of hair preparations, toothpaste and soaps, both Heine and Mousson developed compact apparatus which resulted in faster production as well as economies of space and labor. Diagrams of the apparatus are included in the report.

Orders for the report PB-47526 (*German Cosmetic, Perfumery* and *Soap Formulae*, 109 pages, microfilm, $3); should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States. Mimeographed copies of the report may be purchased from Hobart Publishing Company, Box 4127 Chevy Chase Branch, Washington 15, D. C., for $5. Checks should be made payable to the company.

Personal Products President Resigns

John A. Underwood announced today his resignation as president of Personal Products Corporation, Milltown, N. J., and Chicago, Ill.

Mr. Underwood has been president of Personal Products Corporation for the past five years. Before taking charge of this Johnson & Johnson subsidiary, he was president of Manning, Bowman & Co., Meriden, Conn., makers of electrical appliances.

Excise Tax Continuance Bill Passed by Senate

OPD Washington Bureau

The administration's tax bill continuing the wartime excise increases on distilled spirits, toiletries and other items, was passed unanimously by the senate last week. Because of two minor amendments, however, the bill was sent to conference for settlement of the differences between the two houses.

Boston BIMS to Meet

The annual winter party of the BIMS of Boston, an association of buyers, importers, manufacturers, and salesmen, will be held in that city at the University Club, March 7. Members will participate in swimming, cards and bowling and will gather at 6:30 p.m. in the Colony Club for dinner.

Dreyer Names Agent

P. R. Dreyer, Inc., essential oils and aromatic chemicals, New York, has appointed O. Hommel Company as its agent in Pittsburgh and surrounding territories.

Trade Briefs

E. I. du Pont de Nemours & Co., Wilmington, Del., is issuing a "Plastics Bulletin," describing new developments and application in plastics produced by the company.

Roberts Paint Corporation, New York, has announced the promotions of Max Rosenstein and Betty Sobel. Mr. Rosenstein, office manager for the past year, has been named auditor, and Miss Sobel will be in charge of personnel management.

Petroleum Derivatives

Retaining its firm position of many previous weeks, the petroleum derivatives market evidenced little let-up in demand for the majority of materials last week. A generally firm to strong tone in petroleum dealings was noted in most sections of the country, with lighter fractions and solvents firming up to an appreciable extent. A slight easing in the demand for residual fuel oils helped to improve the supply situation since stocks were being depleted to a low ebb because of the previous heavy call. Both advances and reductions in kerosene prices were reported along the East Coast. In general, prices suffered very few changes during the period under review.

Short stocks continued to curtail trading in the petrolatums, paraffin and white mineral oil markets and producers were unable to meet the good call being voiced. Adding to the troubles of the petrolatum market was the shortage of drums for shipping.

Imports of crude oil during the first 11 months of 1946 totaled 80,688,000 barrels, an increase of 13,000,000 barrels over the like period in 1945, according to the Department of Commerce. A total of 43,721,000 barrels of refined products was imported during the first 11 months of 1945.

Solvents and Diluents

Aromatic Solvents—This section of the market continued firm last week as interest in these derivatives surged upward. Trading was regarded as brisk with movement of materials stated to be heavy. Increased supplies made it possible to supply the majority of requests with shipments being made on contract and spot demands. Firm prices witnessed no change during the period under review.

Lacquer Diluent—Moderate buying interest and demand kept this section of the market moving at a substantial pace. No material shortages were reported with producers able to satisfy consumers with adequate supplies. The price structure remained firm.

Mineral Spirits—Call for these materials was reported as improved with moderate interest being shown. Producers were in a position to supply all consumer requests as materials were in adequate supply. Prices were firm at previous levels.

Rubber Solvent—This section of the market was reported to be very firm as a result of the excellent interest and call for this commodity. However, difficulty in supplying all requests was encountered since stocks were at a low level. No price changes were reported.

Stoddard Solvent—Generally active last week, the market was the recipient of heavy inquiry and was confronted with demand ranging from moderate to good. Refineries were turning out quantities of supplies large enough to supply present and future demand. Prices remained firm at previous levels.

Markets at Other Centers

Chicago—The tone of the market was steady and good movement of materials was reported.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended February 8 totaled 220,313,000 barrels, according to the Bureau of Mines. Compared with the total of 223,737,000 barrels for the preceding week, this represents a decrease of 3,424,000 barrels, comprising a decrease of 3,140,000 barrels in stocks of domestic crude and a decrease of 284,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline-bearing stocks, totaled 5,444,000 barrels, a decrease of 97,000 barels.

Market Trends

Prices Advanced

Kerosene, West and North New York, New England, 0.2c. per gal.

Prices Reduced

Kerosene, New Jersey, 0.2c. per gal.

(For Current Prices see Page 9)

Aromatic Solvents—Call good, steady market.

Cleaner's Naphtha—Moderate interest, firm prices.

Lacquer Diluent — Fair trade, prices holding.

Mineral Spirits — Good demand, no price change.

Rubber Solvent—Interest high, market firm.

Stoddard Solvent — Good movement, prices firm.

V. M. & P. Naphtha—Steady demand, quotations firm.

Los Angeles—Demand for solvents and diluents remained good in this area. Cleaner's naphtha and lacquer diluents moved steadily.

Lighter Fractions

Butane—Improved availability of supplies increased the volume of business accomplished in this section of the market last week. Buyers were stated to have shown increased interest in the market with substantial movement of supplies being reported. Prices remained firm and without change.

Heptane—Prompt deliveries on both spot and contract orders together with good consumer interest prolonged the healthy condition of this market which has prevailed for many weeks. Stocks were plentiful and easily covered the demand being voiced. The price structure remained firm at previous levels.

Octane—Mild interest was aroused in the market last week with a moderate amount of trading taking place. Stocks were declared to be in good shape with more than enough available to care for the fair call. No price changes were reported.

Propane—Shipments against previous contract orders were well maintained but generally, call for future supplies was relatively small. The larger industrial fuel users continued to consume the largest portion of stocks being moved. No price changes were effected during the period under review.

Markets at Other Centers

Chicago—In general, consumer interest was regarded as good with movement described as substantial.

Butane—Call brisk, market steady.

Heptane—Business good, no quotation change.

Hexane—Buying better, without price change.

Octane—Interest up, market strong.

Pentane—Call active, prices firm.

Propane — Business brisk, quotations stiff.

Los Angeles—Buying interest in the liquefied petroleum gases was well maintained in this area. Supplies were excellent.

Petrolatums and Waxes

Petrolatums—Activity was moderate last week with buyer interest reported as good. Stocks which had been in a relatively short supply situation for some time were stated to have improved slightly. However, a serious difficulty continued to be encountered in the procurement of drums, since the present shortage of these containers were holding up shipments. No price changes were reported with the previous quotations remaining in effect.

White Mineral Oils—Steady demand and good interest resulted in a brisk market last week. Inquiries for spot materials were improved but some difficulty was experienced in supplying all the quantities required. Substantial movement of stocks on previous orders and some shipments on future orders were reported. The price structure remained firm at previous levels.

Markets at Other Centers

Chicago—Materials moved in routine fashion. Consumer inquiries were good.

Paraffin — Inquiry good, steady quotations.

Petrolatums — Interest brisk, market steady.

White Mineral Oils—Active call, firm prices.

For Late Market Developments, See Page 4

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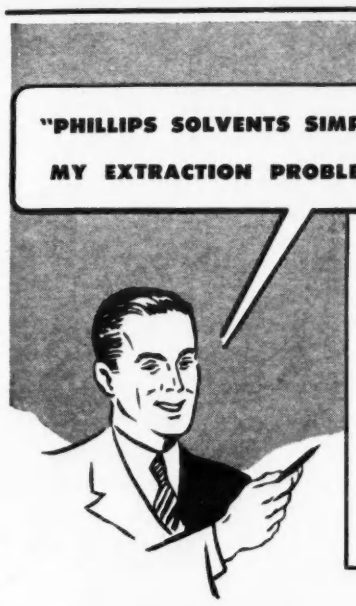

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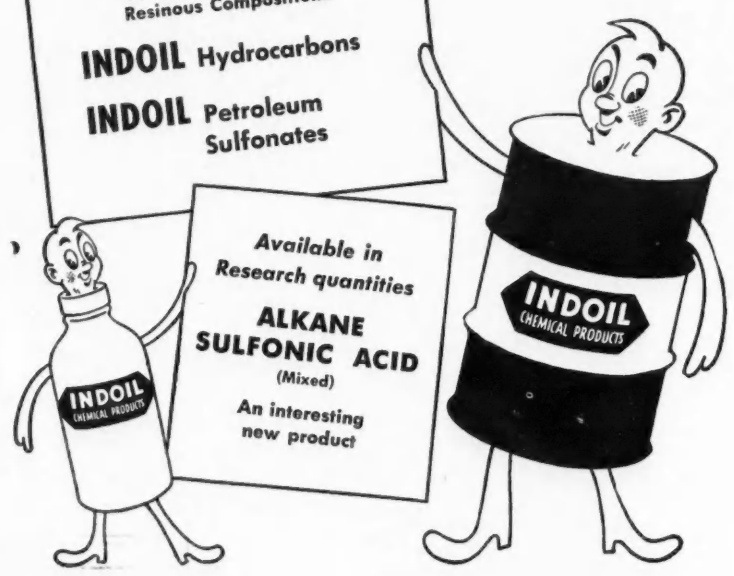

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Protective Coatings Materials

The casein industry, although not very active at present, was the recipient of another price change last week. Three weeks ago, the higher production rates of domestic casein resulted in a lowering of prices. Attempting to compete with this new domestic price, the Argentine government ordered a reduction of approximately 2c. per pound, with prices now ranging between 39c. and 39½c. per pound. Interest in the market was dull as a result of contracts previously placed for the higher priced stocks. However, call is expected to surge upward when present inventories are depleted.

Other price changes last week resulted in a ½c. per pound advance for the majority of wet ground mica materials. This increase was due to the recent advance in freight rates. Rosin prices, which had been fairly stable, witnessed a 5c. per drum advance for grades F through X.

Shortages of finished materials continued to plague the protective coatings market last week and were chiefly due to the heavy demand that was voiced in most sections of the market rather than because of raw material shortages. Lacquers continued in their stringent supply situation.

Although sales of paint and paint materials last year were the highest recorded over a fifteen-year period, this was regarded as no indication of the actual volume of supplies moved since higher prices had much to do with the increased totals. However, both sales and supply movement were expected to assume very large proportions during 1947.

Metallic Lead and Zinc

Lead—Little change over previous weeks was noted as the stringent supply situation hampered trading. Consistent good demand readily absorbed what stocks were available with many orders filled only partially while some were not filled at all. Throughout the industry, prospects of increased supplies during this year were heard. It was estimated that demand would reach 1,000,000 tons. The difference between this total and the 805,000 tons made available last year was expected to come from increased foreign imports and higher production rates as a result of the present higher prices.

Prices for common grade remained steady at 13c per pound in New York and between 12.80c and 12.85c per pound in St. Louis.

Zinc—Materially unchanged from previous weeks, the industry continued to witness excellent demand but was also the victim of short supplies. New developments were clamoring for large quantities of this material but scarce supplies due to low production forced producers to concentrate on supplying previously placed orders.

Prime western zinc was not affected by any price changes last week and continued to be quoted at 11c per pound in New York and 10.50c per pound in East St. Louis.

Pigments

Litharge—This yellow lead oxide continued to be sought in large amounts but was the victim of the very short lead situation. Anticipating a heavy spring painting season, consumers showed a marked rise in the demand for this material but had to be content with receiving a small portion of their requests because of the shortage. Interesting to note was the reported arrival of 500 drums of this material from Mexico last week. Prices remained steady at previous levels.

Titanium—Enlargement of many production facilities lent some hope to an increased supply picture during this year. At present, production was at a high level in an attempt to meet a major portion of the heavy demand being voiced, but shipments continued to run far behind schedule. Prices were steady and unchanged at previous levels.

Zinc Oxide—Improvement in the production of this material continued to be noted although it continued to be a case of demand being far in excess of present production facilities. Interest in the market from industries other than the paint industry continued to be reported as very high. Prices remained firm and unchanged.

Market Trends

Prices Advanced

Mica, wet-grd., frt. alld. E., biotite, ½c. per lb.
paint, ½c. per lb.
rubber, ½c. per lb.
wallpaper, ½c. per lb.
white, extra-fine, ½c. per lb.
Rosin, gum, grades F through X, 5c. per drum.

Prices Reduced

Casein, Argentine, 2c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
172.0	172.0	170.8	140.2

(For Current Prices see Page 9)

Dry and Chemical Colors

Carbon Black—Prospects of increased production of carbon black during 1947 brightened the market to an extent, but it was felt that any such production increase would be quickly absorbed by the extensive demand that is currently running between twenty and twenty-five percent greater than production. Since no surplus stocks presently exist, daily output is being shipped against previously placed orders. The active automobile industry continues to absorb the majority of stocks with but a small portion left for the paint field.

Chrome Colors—Demand for these materials continued to run far in excess of production that was hampered by the shortages of critical raw materials. However, heavy interest continued to be shown in the hope that an improvement in the situation would be soon forthcoming. No price changes were announced last week.

Iron Oxides—Materials of this nature were in steady demand last week but producers and distributors were faced with the inability to cover all requests because of shortages. However, some improvement over the supply situation of a few months ago was noted as larger imports were being received weekly. Arrivals for the past week amounted to 1,241 barrels and 500 bags from Spain.

Umber Earth—This dry earth color found suitable outlets in the industry as moderate call and demand existed. Imports have shown a tendency to increase and it was reported that a total of 1,226 bags of this material were received from Ceylon during the period under review.

Driers and Flatteners

Napthenates—Throughout the industry, the naphthenate market continued to be regarded as strong and generally in a very healthy condition. No easing of the heavy demand by eager consumers was in sight and interest was at a high pitch. Fortunately, up to this time adequate supplies of napthenic acid have been made available and production, which retained its high output rate, was in a position to satisfy practically all requests. Prices were equally as strong as the market with no changes being reported during the period under review.

Stearates—The quiet attitude of this market due to the scarcity of materials was not changed last week as shortages continued. In heavy demand over a prolonged period of time, stearates remained deeply entrenched in the scarce material category. Low production of stearic acid and other fatty acids made it impossible to divert substantial amounts of these materials for the production of stearates. Few predictions as to when the situation would improve were heard last week. Prices remained steady and unchanged.

Fillers and Extenders

Fuller's Earth—Moderate call and interest in this section of the market absorbed stocks which continued to be improved to a small extent by the arrivals of moderate quantities from foreign countries. Spot demand was reported to have improved. Imports

For Late Market Developments, See Page 4

OPD—2-24-1947 67

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METHYL "CELLOSOLVE"* STEARATE

METHYL "CELLOSOLVE" STEARATE, a synthetic ester, is used as a plasticizer for cellulose derivative, paper coatings and wax finishes. The following data may suggest other uses.

Chemical formula	$C_{17}H_{35}COOCH_2CH_2OCH_3$
Molecular weight	342
Color (platinum cobalt scale)	175
Melting point	22° to 24°C
Flash point	378°F
Acidity	less than .6 mg. KOH per gram ester
Specific gravity	.888 at 25°/25°C
Iodine value	2 max.

Low volatility

* Trade mark of C&CC.

BUTYL STEARATE

BUTYL STEARATE, a synthetic ester, is used as a plasticizer for cellulose and polyvinyl derivatives, also for cosmetics, paper coatings and wax finishes. The following data may suggest other uses.

Chemical formula	$C_{17}H_{35}COOC_4H_9$
Molecular weight	341
Color (platinum cobalt scale)	130
Melting point	19° to 20°C
Flash point	358°F
Acidity	less than .6 mg. KOH per gram ester
Saponication number, 171-179 mg. KOH per gram ester	
Specific gravity	.85-.86 at 20°/20°C
Iodine value	2 max.

Low volatility

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for the past week amounted to a total of 200 bags from England.

Gypsum—New discoveries of gypsum fields and increased production rates were needed to satisfy the excellent demand for this commodity. The heavy housing production program required the largest amounts of this material and supplies were being quickly diverted to this industry. Substantial shipments were arriving from Nova Scotia and it was reported that 3,436 bags were received from there last week.

Mica—Due to the increase in freight rates, the paint, rubber, wallpaper and extra fine grades of wet ground mica were advanced ½c. per pound last week. Following is the new schedule of prices: Paint grade, carlots, 6½c. lb., less carlots, 7c. lb.; rubber grade, carlots, 6¼c. lb., less carlots, 6¾c. lb.; wallpaper grade, carlots, 6½c. lb., less carlots, 7c. lb.; white, extra fine grade, carlots, 6¾c. lb., less carlots, 7¼c. lb. Shipments are in bags and carlot quantities are freight equalized in the East. Less carlot shipments are ex warehouse or freight equalized in the East.

Lacquer Materials

Butanol—Natural fermentation materials of this type continued to be lacking in quantities sufficient to satisfy all consumers. Lowered production because of inadequate supplies of molasses and the reluctance on the part of producers to switch over to corn as the raw material were stated to be the chief factors for the present shortage. Although a slight easing of the situation was reported in some sections, the good demand readily absorbed stocks on hand.

Butyl Acetate—Shortages of this material continued and were due chiefly to the scarcities of butyl and acetate materials. The heavy demand of previous weeks continued to be in evidence with no easing of the situation in sight. An improvement in the acetic acid market was deemed necessary for any subsequent improvement in the production of butyl acetate. Prices remained steady and unchanged at previous levels.

Dimethyl Phthalate—Although definitely not in a good supply situation, this commodity fared somewhat better than the other phthlate materials. Both interest and demand were reported to be at high levels, but shipments were behind schedule and were concentrated on contract orders. No price changes were reported during the period under review.

Dibutyl Sebecate—The supply situation of this material has become so acute that some producers were reported to have withdrawn prices from the market. Moderate demand has been in evidence for some time, but little chance was held to satisfy a good portion of this call.

Tributyl Phosphate—Trade circles reported demand to be at a high level for this material although supplies were at a low ebb. Shipments against previously placed orders were being maintained as good as possible with the materials on hand. The price structure remained steady at previous levels.

Varnish Gums

Gums—Shipments of the natural resins continue to improve weekly with larger amounts and some of the more scare materials arriving now and then. However, interest in the market was not what it should be, according to distributors. This was due to the high prices being asked both at home and abroad. Some European countries, in dire need of these materials, were reported to be paying much higher prices than were considered normal in order to insure large shipments. Arrivals during the past week amounted to 7,835 bags of copal from the Belgian Congo and 1,073 bags and 175 cases of dammar from Singapore.

Shellac—The quiet atmosphere of the market prevailed again last week as the situation in India continued to be difficult. The inability to ship suitable quantities from Calcutta due to the dock strike and the recently developed tugboat strike, resulted in a stronger market here. Arrivals during the past week amounted to 1,600 bags of shellac from Calcutta.

A distinct increase in the exportation of orange shellac, garnetlac, seedlac and refuselac from India during the six months' period January 1 to June 30, 1946, was recorded in a recent dispatch from Calcutta. Only buttonlac showed a decline. The total figures for this period as compared with the corresponding periods in 1945 and 1944, are:—

	Packages*		
	1946	1945	1944
Orange	119,922	70,789	114,256
Button	3,630	5,975	2,905
Garnet	7,835	5,745	8,262
Seed	64,996	24,707	25,530
Kiri (refuse)	13,190	54	.....
Totals	209,563	107,270	150,953

* Each package equals approximately 1½ hundredweight.

Naval Stores

Rosin—Inquiries for gum rosin from abroad continued to be heard in substantial volume although the possibility of supplying these requests were very small as stocks continued to dwindle. It was true that the demand has eased off to an extent from the rush of orders that was witnessed immediately following decontrol, but it was also reported that producers were finding it difficult to supply the present demand with the materials on hand. Domestic call for gum rosin retained its dull tone with but few buyers reported in the market. Most consumers stocked up on this commodity before export decontrols were effected. Grades F through X of gum rosin were subject to an advance of 5c. per drum of 100 pounds last Wednesday.

Savannah, Feb. 20.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Fri.	Mon.	Tues.	Wed.	Thurs.
B	$8.25	$8.25	$8.25	$8.25	$8.25
D	8.60	8.60	8.60	8.60	8.60
E	8.90	8.90	8.90	8.90	8.90
F	9.60	9.60	9.60	9.65	9.65
G	9.60	9.60	9.60	9.65	9.65
H	9.60	9.60	9.60	9.65	9.65
I	9.60	9.60	9.60	9.65	9.65
K	9.60	9.60	9.60	9.65	9.65
M	9.60	9.60	9.60	9.65	9.65
N	9.60	9.60	9.60	9.65	9.65
WG	9.60	9.60	9.60	9.65	9.65
WW	9.60	9.60	9.60	9.65	9.65
X	9.60	9.60	9.60	9.65	9.65
	Drums				
Sales	...	...	...	60	...
Receipts	...	...	124	...	...
Shipments	...	840	...	...	...
Stocks	6,718	5,899	6,399	6,399	6,403

Turpentine—The opinion that call for gum turpentine would increase sharply when export controls were lifted did not materialize again last week. The tone of the market continued to be very dull and the opinion in trade circles was that the high prices had done much to hurt the market. The fear of lower priced substitutes cutting into the market continued to be heard but even in view of this, no decline in prices was heard and was not expected before the new crop came in. Supplies in New York and Savannah were at a low level.

Savannah, Feb. 20.—Following is a record of the turpentine market for the week:—

	Bulk gallons—		Barrels—		
	Sales.	Re-ceipts.	Ship-ments.	On hand.
Friday	$1.19	950	147	153	2,178
Monday	1.19	950	...	238	1,940
Tuesday	1.19	...	61	...	2,001
Wednesday	1.19	...	...	45	1,956
Thursday	1.19	...	...	82	1,874

Glues and Binders

Casein—The easy market of the past few weeks showed a tendency to firm slightly last week. Production of domestic casein was presently at a high level and was due principally to the shortage of sugar to be used in the production of condensed milk and the lessening of the demand for powdered milk. With the production of these two products dropping off, larger quantities of milk have been able to be diverted into casein production. Trade circles estimated that this good rate of production would probably last until June, which would see the domestic stockpile assume great proportions and probably would necessitate the lowering of prices which have been considered too high. Even though domestic production rates were at a high level, few buyers were reported in the market since the majority of them had previously let out contracts for higher priced casein stocks. Consumers were generally attempting to rid themselves of these high-priced stocks and to reduce their inventories to a low level before they would purchase domestic stocks.

In order to compete with the American market which lowered its prices approximately three weeks ago, it was reported that a break in the Argentine market occurred last week and prices dropped to 39c. per pound, f.o.b. Buenos Aires, which brought the New York price to approximately 44c. per pound. Domestic prices were generally being quoted at 38c. to 39c. per pound.

Pitts. Glass Names Paint Technical Head

Dr. George M. Buffett has been appointed technical director of the Pittsburgh Plate Glass Company's new paint plant at Springdale, Pa., according to an announcement by E. D. Griffin, vice-president of the firm's paint division. Also appointed was Wallace E. Shepard, jr., who will serve as manager of industrial sales.

Dr. Buffett has been associated with the firm's paint division at its Milwaukee, Wis., plant during the past nineteen years. Mr. Shepard has been associated with Pittsburgh Plate since 1931. During the past fifteen years he has been an industrial paint sales representative for the paint division.

He served as a commissioned officer with the U. S. Navy during World War I. Mr. Shepard, a graduate of Cornell University, will have his headquarters at the new Springdale plant.

Bradley Paint Engineers Formed

Bradley Paint Engineers, Inc., has been organized in Pittsburgh, with William J. Bradley as president. Offices are in the Jones Law building and the plant is at Connellsville, Pa. The company will manufacture industrial paint, develop special coatings for industry and design mechanical equipment for application of the coatings.

Other officers are W. W. Booth, vice-president; G. R. Henry, vice-president, and Sherman Rock, secretary-treasurer.

Brazilian Carnauba Wax Exports Detailed

Exports of carnauba wax from Parnahyba, Brazil, to the United States in 1946, totaled 3,935,413 kilos, according to Moraes & Cia, Parnahyba, Brazil. Exports to European countries amounted to 532,560 kilos, and home consumption totaled 25,596 kilos.

Shippers of carnauba wax during the period from January to December, 1946, according to Moraes & Cia were:—Moraes & Cia, 1,225,697 kilos; Est. James Fred, Clark S.A., 1,067,175 kilos; Casa Marc Jacob S.A., 1,045,579 kilos; Machado & Trindade, 192,723 kilos; Francisco A. Cavalcante, 122,230 kilos; Mario Andrade, 91,128 kilos; Almendra & Irmaos Ltda., 59,738 kilos; Celso Nanes, 50,181 kilos; Sebastiao Furtado, 33,372 kilos; Francisco Borges dos Santos, 27,339 kilos; Leonidas Lean, Filhos, 10,126 kilos and Waldeck Bona, 10,125 kilos.

Plastic Products Use Expansion Discussed

A wide variety of new plastic products, such as faster-drying printing inks and better lubricating oils, which are far removed from the usual plastic field has been made possible by recent advances in the study of plastic structure, Dr. Paul O. Powers, technical advisor of the Battelle Memorial Institute, Columbus, Ohio, told the Chicago section of the American Chemical Society February 21.

Northwest Paint Technicians Plan Golf Tourney June 20

The Northwestern Paint and Varnish Production Club has scheduled its annual golf outing for June 20, 1947, and its annual party for January 17-18, 1948.

Dr. D. D. Rubek, director of the Chicago research section of the Anderson Pritchard Oil Corporation, was speaker at the club's February meeting. He discussed "Solvents used in the Paint Industry and Some Application Problems," and closed with demonstrations of thinner action in paint flow, evaporation rates and solvent action.

Passonno-Hutcheon Names Anderson Sales Head

Passanno-Hutcheon Company, paint manufacturer, has appointed H. J. Anderson sales manager. Mr. Anderson's headquarters will be at 9808 Meech avenue, Cleveland, Ohio.

Hollingshead Names Bosschieter to Post

R. M. Hollingshead Corporation, paint manufacturer, Camden, N. J., has announced the appointment of Dr. Gabriel Bosschieter as technical director of the coatings division.

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N.Y. Paint Technicians Study Soybean Research

New research developments of chemically modified soybean oils, made by the cold polymerization of active monomers with soybean oil, to produce synthetic products equivalent to or better than tung oil, were revealed by Dr. S. A. Sorenson of the Archer-Daniels-Midland Company at the February meeting of the New York Paint and Varnish Production Club, held in the Building Trades Employers' Association building, 2 Park avenue.

Some of these developments now ready for the pilot plant are varnish oils, which are heat convertable and give good color and color retention, producing hard films of unusual toughness with flexibility characteristics comparable to the long oil alkyds, Dr. Sorenson said. Monomers reactable with soybean oil include such chemicals as alpha and beta pinenes, styrenes, pentadienes, cyclobutadiene, and others, he said.

These oils, Mr. Sorenson said, give better baking than tung oil, and yet have the yellowing characteristics of alkyds. They cook as fast or faster than tung oil and in air drying finishes they set in about two and one-half hours and dry slick and hard overnight, it was added.

For comparable flexibility, Dr. Sorenson said, they must be formulated at a longer oil length than ordinarily used for a given product, because of their characteristic hardness.

Chicago Paint Technicians Discuss Labor Relations

Chicago Paint and Varnish Production Club, during its February meeting, heard a discussion of the three phases of labor relations by L. W. Beman, labor relations consultant of Swanson, Ogilvie and McKenzie Company, Chicago.

Mr. Beman said that first management must campaign for recognition by asking employees to consider the cost, need, and benefits offered by unionism; secondly, the negotiation and agreement must be arrived at in a direct, clear form avoiding ambiguity; and thirdly, working under the agreement can be made easy if the employer will anticipate grievances and act upon them without union intervention.

Southern Paint Group

—Continued from page 7

Company; "Industrial Finishes for the South," E. H. Trussell, American Cyanamid Company, and "Postwar Exterior House Paint," Sidney Werthan, New Jersey Zinc Company.

V. C. Bidlack, secretary of the Federation of Paint and Varnish Production Clubs will present a "Review of New Raw Materials" at 11 a.m., March 21. This talk will be followed by a round table discussion on "Painting Southern Yellow Pine," participants in which will be E. W. McMullen, Eagle-Picher Company; F. L. Browne, Forest Products Laboratory; J. F. Broeker, E. I. du Pont de Nemours & Co.; Sidney Werthan, New Jersey Zinc Company; E. P. Peterson, National Lead Company, and James MacGuffie, Titanium Pigment Corporation.

In the afternoon of March 21 Dr. Mark Westgate, of the scientific section of the National Paint, Varnish and Lacquer Association, will discuss "A Booby Trap for Oxygen." There also will be an open forum in which all technical men may participate.

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Oils, Fats and Waxes

Active demand combined with the scarcity of supplies, resulted in further advances in prices to new highs for crude corn, cottonseed, peanut and soybean oils last week. Trading was restricted to scattered tankcars at increases of ½c. to 1c. per pound. Refiners were compelled to increase bids in order to obtain supplies, especially for prompt and nearby delivery. Production of these oils was sold up and offerings were scanty. All oils and fats continued in firm position. Small lot trading in grease and tallow was reported at premiums of ¼c. per pound. Large consumers showed an active inquiry, but were reluctant to follow the market upwards. Higher cost of castor beans were reflected in castor oil, and dehydrated was advanced 1c. and other grades 2c. per pound. Oilmeals were improved to some extent by recent improved export business, though domestic demand continued slow and accumulation of supplies was reported heavy.

Tung oil for export was removed from specific allocation by the International Emergency Food Council, it was announced, February 18. Export supplies of tung oil are not only below prewar, but are uncertain under present conditions, the Council stated. Tung oil for shipment from China was withdrawn last week and the market was entirely nominal with suppliers here boosting asking prices about ½c. per pound. Official Chinese exchange rate was fixed at 12,000 Chinese dollars to $1. U. S. last week.

Waxes were easier, except beeswax and prices of carnauba and ouricury continued to slide downward.

Cottonseed Oil

Crude cottonseed oil reached another new high with sales made at 33c. per pound, tankcars, f.o.b. mills. Trading was limited, because of the light offers and refiners were bidding at this figure for all positions in all sections of the cotton belt. Offers were scarce owing to the sold up production. Refined oil futures were steady during the week and December delivery scored a new high, while other months were firm at the high levels reached a week ago.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended Thursday, February 20, follow:—

	Sales	Cents per pound—High	Low	Close
March	..	..	..	35 bid
May	15	35	35	35 bid
July	4	35	34½	34½ bid
September	14	31	30	30¾@31
October	23	29	28¾	28¾ bid
December	11	27½	26½	26.80@27½
January	..	..	..	26¼@27¼

Total sales, 67 contracts.

Crude oil was sold and bid at 33c. per pound, tankcars, mills, in all sections of the South.

Memphis.—Trading in crude cottonseed oil light with numerous bids at 32c. per pound, tankcars, f.o.b. Valley, refused. Most mills sold against seed receipts. Cottonseed meal in slightly improved demand and 41 percent was quoted at $62 per ton, bulk, Memphis. Hulls in bulk named at $11.50 per ton and sacked at $16.50. Improved export demand for peanut and soybean meals with sales reported at $62 per ton, sacked, mills.

Linseed Oil

An agreement has been reached with the Argentine government for the purchase of 40,000 metric tons of linseed oil by CCC, the American Embassy informed the Department of Agriculture. Shipments of 10,000 tons will be made from Argentina in February, March, April and May. This oil was bought for the account of crushers who normally import flaxseed and linseed oil. The bulk of this oil was reported sold to consumers on the basis of 38c. per pound, tankcars for delivery during the second quarter.

Replacement oil was in good request. Prices were advanced to 34c. per pound, tankcars, and to 35c. per pound, drums, carlots. Smaller quantities ranged from 35.40c. to 36.20c. per pound, drums, according to seller and quantity.

Minneapolis.—With some relief given by the 40,000 tons of oil acquired from Argentina there was a little let-up in the pressure on local crushers who have nothing for sale.

Shipments of linseed oil, in pounds, were as follows:—

	1946-47	1945-46
This week	6,360,000	6,780,000
Since Sept. 1	132,620,000	156,334,000

Flaxseed — Seed was firmer in the West and bids were increased to $7.75 per bushel. Offers were scarce at the higher level.

Minneapolis—Bids of $7.75 for spot and to arrive flaxseed, 50c. a bushel over the prevailing price since early in the year, burst like a bombshell over the trade. Market analysts said that the higher price would serve little purpose in that it would not produce any more flaxseed. However, some felt that the advanced price would stimulate even more interest on the part of prospective flaxseed producers and increase acreages for 1947.

Bushels—	Receipts 1946-47	1945-46	Shipments 1946-47	1945-46
This week	71,400	94,500	61,200	75,000
Since Sept. 1	10,588,300	16,890,500	4,604,800	2,083,500

Other Vegetable Oils

Castor, Dehydrated—Prices of dehydrated was advanced 1c. and No. 3 technical, 2c. per pound. Demand was active and exceeded the supply. Bodied oil was increased to 39c. per pound, tankcars, and 40c. per pound, drums, carlots. Unbodied was quoted 1½c. per pound below bodied. Technical, No. 3 was named at 32¼c. per pound, tankcars, and at 33¼c. per pound, drums, carlots.

Coconut—Trading was reported light, but market was steady. Offerings were light and well held. Crude oil was quoted at 20¼c. per pound, tankcars, f.o.b. Pacific coast for February-March shipment and at 20c. for April-June. Tankcars were nominal at 21c. per pound, New York basis. Copra was nominal at $215 per short ton, f.o.b. Pacific coast and $220 Atlantic ports.

Corn—Trading in crude oil was reported at 31½c per pound, tankcars f.o.b. mills, with bids at this price turned down. Offers were scarce and market strong at 32c. same basis. Refined oil was quoted at 36c. per pound, tankcars, f.o.b. mills.

Oiticica—Scarcity of oil on the spot and of offers for shipment hampered business Inquiry for new crop oil was fairly active, with sellers not offering.

Olive—Limited quantities of edible oil on the spot were held at $7 to $7.25 per gallon, in drums, according to quantity and seller. Demand continued slow.

Peanut — Demand continued active and sales were reported in crude oil at 32c. and 32½c. per pound, f.o.b. mills, with producers advancing prices to 33c Crushers are paying $10 per ton more for peanuts than the shellers. Supply of peanuts were reported plentiful and it was expected that many oil mills will operate up to the new cottonseed crushing season.

Soybean—Market was firmer. Prices wer advanced 1c. per pound for crude oil for prompt shipment. Tankcars were reported sold at 28½c. and 29c. per pound, f.o.b. mills, for prompt shipment April-June was quoted at 27½c. and July-September 25c. to 25¼c. same basis. Refined oil was quoted at 32c. per pound, tankcars, f.o.b mills, for prompt shipment and 31c. was bid for April-June. Prompt positions were tight. Clarified and alkali refined were advanced ½c. per pound.

Sunflowerseed — Another consignment totaling 9,920 tons was received

For Late Market Developments, See Page 4

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PRODUCTS OF COTTONSEED, PEANUTS SOYBEANS and GROUND GRAINS
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NOTE THESE **CROWN** SPECIFICATIONS

CROWN QUALITY INDEX	PENETRATION	MELTING POINT	COLOR	ODOR*
1035	Less than 2	195°F Minimum	2 to 2½ NPA	None
1010	Less than 2	195°F Minimum	1 to 1½ NPA	None
700	Maximum 5	197°F Minimum	2 to 2½ NPA	None
500	5 to 10	192°F Minimum	2½ to 3 NPA	None
400	5 to 10	192°F Minimum	4 to 5½ NPA	None
200	5 to 10	192°F Minimum	Brown-Black	None
100	5 to 8	196°F Minimum	Black	None

* At atmospheric temperature

If you are interested in qualities not covered in the above specifications, write to the Petrolite Corporation for complete information and samples—if you have a special application problem, ask for technical advisory assistance—it is available to all Crown customers. A descriptive bulletin is now available.

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at New York from the Argentine for transhipment to Canada.

Tung—This market continued upset by the Chinese exchange situation. Shippers withdrew offerings for shipment and importers also were practically out of the market. The exchange rate was officially placed at 12,000 Chinese dollars to $1 U. S. early in the week. Consuming inquiry was quiet. Some trading was reported at 37¾c. per pound, tankcars, though quotations were entirely nominal at 38¼c. to 38½c. Drums were quoted nominally at 39c. per pound, carlots and 40c. to 40½c. for lesser quantities.

International Emergency Food Council announced, February 18 that allocations recommending specific destinations for exports of tung oil will not be included in the fats and oils allocation schedules for 1947. Although no specific allocations will be recommended for tung oil, tonnages imported by claimant nations will be considered in later revisions of the total allocations of fats and oils for each claimant nation, the Council stated. Export supplies of tung oil are not only below prewar, but, under present conditions, are uncertain. Consequently, it is difficult for exporting or importing countries to conform to any pattern of distribution laid down in advance.

Fats and Greases

Greases — Market remains firm at the recent advance in prices. Inquiry was reported active. Production was sold well ahead and offerings were restricted. Trading was light at the higher levels.

Lard—Recent heavy demand for export resulted in further advances in spot market and in futures. Cash lard was well held at 28c. per pound, tierces, Chicago and loose was nominal at the same figure. Buying interest was reduced late in the week and offerings wer slightly increased. Stocks of lard and rendered pork fat in the United States totaled 122,239,000 pounds, February 1, compared with 68,756,000 pounds, January 1 and 83,489,000 pounds, February 1, last year. February 1, 5-year average was 146,872,000 pounds. Chicago lard stocks were 48,736,940 pounds, February 15, against 43,021,340 pounds, February 1 and 23,238,100 pounds, February 1, 1946.

Tallow—With production sold well ahead, offerings were scarce and trading in fancy grades in small lots were reported at premiums of ¼c. per pound. Trading in round lots was quiet. Prices were firm. Extra was quoted at 22¾c. per pound, loose, special 22⅝c., choice, 22⅞c. and fancy, 23c., same basis.

Fatty Acids

Red Oil — Active demand continued to take the bulk of the output against former orders. Makers were not offering and have turned down orders for substantial tonnage for export. Prices were firm.

Stearic Acid—Supply situation remains tight and market was firm at current quotations. Consumers absorbed the output on previous orders. Export inquiry was keen.

Cake and Meal

Emergency allocations of 10,000 long tons of oil cake or meal to France, 5,000 to Norway, and 5,000 to Eire, were announced February 18 by the Department of Agriculture.

Cottonseed Meal—Although the market in the Southeast made new lows, because independent crushers were forcing sales, the market in the Valley was slightly firmer. Sales of 41 percent meal was reported at $62.50 per ton, sacked f.o.b. Georgia mills, and 36 percent at $58.50, same basis. It is becoming more apparent that there will be no shortage of cottonseed meal this year Consumption in January was indicated at 142,000 tons, the smallest in 25 years.

Linseed Meal — Inquiry continued slow. Prices were nominal at $76 per ton, f.o.b. Edgewater, N. J.

Minneapolis.—Strength in feed markets generally, cold weather over the feeding belt and a very light supply of protein feeds kept linseed meal prices at $80 per ton, bulk, in carlots.

Shipments of linseed meal, in pounds, were as follows:—

	1946-47	1945-46
This week	6,600,000	7,200,000
Since Sept. 1	180,570,000	221,300,000

Peanut Meal—Sales of 41 percent sacked were reported at $60 per ton, f.o.b. Alabama-Georgia mills for February-March shipment. Owing to recent export demand mills are fairly well sold ahead for prompt shipment, but substantial quantities were offered for April-June. Domestic buyers and exporters are showing little interest beyond 30 days.

Soybean Meal—Substantial tonnage was reported sold for export through Norfolk, last week. Prices to the domestic trade are unchanged at $61 per ton, sacked, Georgia, and $63 per ton, Carolina mills. May delivery sold at $57 per ton sacked f.o.b. Decatur and July at $57 to $57.50, same basis.

Waxes

Beeswax—Business was reported light and spotty. Market remains steady reflecting the strength of primary centers. Prices were unchanged for all grades.

Candelilla—Trading was dull with prices unchanged for crude at 76c. to 77c. per pound and refined at 80c. for Co-operative Union grades, while other grades were available at 5c. to 6c. below these levels.

Carnauba — Trend of prices continued downward last week. Consumers limited demand to small lots for actual needs. Brazilian market was reported easy with trading slow and shippers asking for bids. Prices of spot stocks were reduced 7c. to 8c. per pound. Chalky, No. 2 was quoted at $1.30 to $1.32 per pound for spot delivery, N.C. No. 2, $1.38 to 1.40, N.C. No. 3, $1.32 to 1.35, refined, $1.40 to 1.42, yellow, No. 1, $1.70 to $1.72.

Japan — Inquiry was light and the market was more or less nominal at 43c. to 50c. per pound, as to seller and quantity.

Ouricury — Weakness in carnauba was reflected in ouricury and prices were lower. Crude was quoted at 72c. to 74c. per pound and refined at 80c. to 82c. per pound, on spot, depending upon quantity.

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IMPORT EXPORT

Chemical Analyses Speed-Up Promised

Faster and more dependable results from chemical analyses are promised by a new statistical technique which automatically eliminates many experimental errors, Dr. William J. Youden, chemist of the Boyce Thompson Institute for Plant Research, Yonkers, N. Y., declared in an address to a joint meeting of the New Haven section of the American Chemical Society and the American Statistical Association.

Using the new technique, a chemist must perform an analysis a few times with different weights of the material to be analyzed, Dr. Youden explained. When arranged as points on a graph, he said, the result free from troublesome constant errors, can be seen by a moment's inspection. Accurate calculation based on the graphic results takes only a few minutes.

The new statistical technique has been tried in actual laboratory work and has proved highly successful in obtaining accurate results with unusual speed, he said.

The meeting was held at Sterling Laboratory of Yale University. Dr. Wesley S. Coe of the Naugatuck Chemical Division of the United States Rubber Company, chairman of the New Haven section, presided.

Soybean Oil Viewed As Linseed Replacement

Replacement of linseed oil by chemically treated soybean oil as a base for paints, linoleum, and many other products, thus freeing American industry from reliance on imported flaxseed may soon develop, it was stated by Dr. Alexander Schwarcman, research director of Spencer Kellogg & Sons, Buffalo, N. Y., before a meeting of the Pittsburgh section of the American Chemical Society February 20.

Dr. Schwarcman called the development of soybean farming in the United States in the last fifteen years a "great agricultural epic," pointing out that a quarter of a billion bushels of soybeans are being harvested annually, yielding over a billion pounds of valuable oil.

Citing the use of liquid soya oil in foodstuffs, Dr. Schwarcman stated that further definite progress has been made in imbuing soya oil with drying qualities similar to linseed oil, with a splendid prospect of freeing the United States from importing flaxseed for production of linseed oil.

Standard Varnish Elects Directors

Standard Varnish Works, Staten Island, N. Y., has announced that J. P. Jordan and A. J. Kestly, both of Chicago, and H. H. Rittenhouse, jr., and C. F. Lesch, with headquarters in New York, have been elected to the company's board of directors.

The following directors were re-elected to succeed themselves:—A. E. Campbell-Harris, M. H. Corbin, E. E. Day, W. B. Day, A. D. Robson, J. H. Wood, and James S. Wolf.

G.E. Shifts Staff Of Taunton Works

Harold M. Patterson, who for the past three years has been manager of the Taunton works of the General Electric plastics division, has been named engineering manager of the division, it has been announced by George P. Lehmann, manager. Mr. Patterson will be succeeded as Taunton works manager by Frank Gimblette, who has been mechanical engineer for the plastics division. Mr. Patterson's headquarters will be in Pittsfield.

Mayonnaise Standards To Be Discussed March 24

Standards of indemnity for mayonnaise, salad dressings and related products, will be discussed at a meeting of the Foods Standards Committee of the Food and Drug Administration March 24. The meeting will be held in Room 5545, Social Security building, Washington, D. C.

Ferbert-Schorndorfer Observes 25 Years

Ferbert-Schorndorfer Company, Cleveland, producer of automotive and industrial paints, varnishes, lacquers and cable insulating material, recently celebrated its twenty-fifth anniversary.

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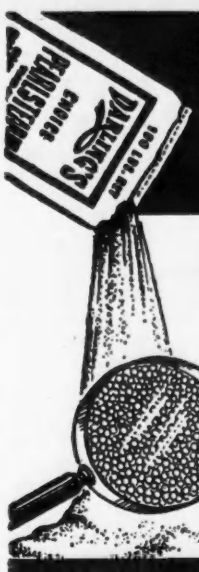

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The story is told of the time when Will Rogers bet a friend that he could make President Coolidge smile upon their first introduction. The bet was made immediately — and won by Rogers, for when he was presented to the usually taciturn president, he said "Pardon me, I didn't quite get the name."

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SPECIAL PURCHASE

26—Aluminum Jack. KETTLES, 30-gal. cap.
8—Stainless, Jack. KETTLES, 30-gal. cap.

TABLET MACHINES

2—Stokes RD-4 Rotary 16 punch, maximum 1" dia.
4—Stokes "R" single punch, maximum 2-¼" dia.
4—Stokes "F" single punch, maximum ¾" dia.
1—Stokes "N" single punch, maximum ½" dia.

DRYERS

3—5' x 33' J. P. Devine Rotary Vacuum Dryers.
2—Buffalo 32" x 90" Atmospheric DOUBLE DRUM DRYERS, M.D.
2—Buffalo 42" x 90" Atmospheric DOUBLE DRUM DRYERS, M.D.
2—Buffalo 32" x 72" Atmospheric DOUBLE DRUM DRYERS, M.D.
2—A. N. 4' dia. x 9' long atmospheric double drum dryers complete.
1—B. & C. 25" dia. x 60" face Atmospheric DOUBLE DRUM DRYER complete.
2—Direct heat ROTARY DRYERS; 5'x30', 6'x35'.
1—6'x35' Louisville Direct Heat single shell Rotary Dryer.
1—4'x20' Ruggles-Coles Indirect Heat Rotary Dryer.
1—4'x20' ROTARY KILN or ROTARY DRYER, Ruggles-Coles, geared-head, motor drive.

VACUUM PUMPS

2—DRY VACUUM PUMPS, Ingersoll-Rand, 1048 CFM, each 17"x 10", Duplex, with belt idlers for short drive. Used one week.

VACUUM FILLING LINE

1—K. K. 8 stem Rotary Vacuum FILLER.
1—K. K. 20' steel CONVEYOR BELT, 4" wide.
1—CAPEM sgl. head CAPPER with automatic CAP FEED.
1—WEEKS automatic straight line LABELLER.

HYDRAULIC PUMPS

Aldridge Pump Co. Vertical Triplex HYDRAULIC PUMPS, 2¾"x8", equipped with Herringbone Gears, 67.5 gpm. Maximum pressure for intermittent duty 2,200 lbs., for continuous duty 1,800 lbs. Pump and motor mounted on common bed plate.
Motors are 75 HP, 3/60/220-440 volts, 1740 RPM. Complete with starting panel, consisting of G. E. motorstarter switch, push button control, square "D" Switch, and capacitator.
Purchased new 3½ years ago. Excellent condition. Available for immediate delivery.

1—Stokes No. 2 gear type TUBE FILLER.
1—Colton No. 2 worm type TUBE FILLER.
1—Stokes TUBE CLOSER & CLIPPER.
2—Colton No. 3 TUBE CLOSER and CLIP FASTENER.

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6—OLIVER ROTARY CONTINUOUS VACUUM FILTERS, 11'6" dia. x 18' face, each 640 sq. ft. filtering area. Complete.

2—VACUUM PUMPS, Chicago Pneumatic, duplex, 36"x36"x13", each with direct connected 250 HP 3/60/440, 225 RPM synchronous motor with exciter, starting equipment, etc. 6760 CFM at 22".

2—American Rotary Continuous VACUUM FILTERS, 12'6" dia. x 23' long, 10 discs, approx. 2,000 sq. ft. filtering area each. Now equipped with steel leaves. Wood leaves can also be furnished.

2—Ingersoll-Rand Dry VACUUM PUMPS, 31"x13" Type ES. 2830 CFM, with V-belt drives.

3—Industrial UNIT HEATERS, each 645,000 BTU per hour. With motors, fans, etc.

2—No. 30-NF ALL STEEL HAMMER MILLS, made by Williams Crusher & Pulverizer Co., St. Louis. Manganese liners and grate bar discharge. 17"x30" feed opening—100 H.P. required. Weight, each, 9,600 lbs.

2—Goslin-Birmingham EVAPORATORS, 6-effect, each evaporator having a total heating surface of 58,200 sq. ft. Electronite steel tubes; welded steel bodies. Each evaporator designed to evaporate 172,230 lbs. of water per hour from a feed of 586,000 lbs. per hour of soda-alumina solution. Complete with condensers, pumps, motors, controls, instruments, etc.

1—6' x 50' Louisville DIRECT HEAT ROTARY DRYER with combustion chamber, exhauster, Buffalo air washer for dust elimination.

3—8' dia. x 46' ROTARY KILNS, DRYERS OR COOLERS, ½" shells, construction heavy enough for lengthening to 150 ft. Made by Traylor Eng. & Mfg. Co.

4—COAL PULVERIZERS, type E-35, made by Babcock & Wilcox Co. Complete with exhausters and 100 HP 3/60/440 volt motors, full starting and control equipment.

8—TWO-ROLL SAW TOOTH CRUSHERS, No. 10-EC, made by Sprout Waldron & Co., Muncy, Pa. 8/15 HP required —16"x16" feed opening.

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1—8'x8' OLIVER FILTER UNIT, complete.
1—Gedge Gray 600-lb. DRY POWDER SIFTER AND MIXER.
3—J. H. Day, Size D, 600-lb. DRY POWDER MIXERS, M.D.
2—450 gal. copper steam jacketed KETTLES.
1—ROTEX SCREEN, 40"x84".
1—W. P. MIXER, jacketed, 100-gal. sigma blades.
1—York 500 GPM HOMOGENIZER, bronze fitted, with 15 H.P. A.C. motor.
1—250 gal. Copper jack. agit. closed KETTLE OR VAC. STILL.
10—Copper & Aluminum KETTLES to 500 gal. cap.
2—Copper steam jacketed agitated KETTLES, 1—54" dia. x 42" deep, 300 gals.; 1—36" dia. x 31" deep, 70 gals.
1—J. H. Day auger POWDER FILLER. 2-Stokes No. 15.
2—Colton No. 3 TOGGLE Globule PRESSES, for making capsules.
4—250 gal. closed GLASS-LINED TANKS.
1—Pneumatic Scale six head CAPPING MACHINE.
Approximately 300 feet of STEEL BALL BEARING ROLLER CONVEYOR, from 17 to 32" widths.

FILTER PRESSES

1—Johnson 24" x 24" cast iron FILTER PRESS, 24 chambers.
1—Brecht 24" x 24" cast iron recessed FILTER PRESS, 25 chambers.

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20—Steam Jack. KETTLES, 20, 25, 30, 50, 60 and 80 gal.
24—Closed STORAGE TANKS, rectangular shaped, 73"x34"x60", 700 gal. capacity.
24—Closed STORAGE TANKS, rectangular shaped, 56"x46"x72", 800 gal. capacity.
2—Closed Jack. agitated Kettles with coils; 1—1,200 gal., 1—900 gal.
1—1,200 gal. closed jack. Kettle or Vacuum Still.
3—Closed jack. agitated Kettles or Vacuum Stills.
1—350 gal. closed jack. agit. Kettle.
9—250 GAL. NEW CLOSED HORIZONTAL STORAGE TANKS, OVAL SHAPED, APPROX. 46" AND 28" BY 61" LONG, 18" ROUND MANHOLE IN TOP, ⅛" PLATE.

12—150 gallon STAINLESS STEEL TANKS.

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2—Knapp auto. LABELLERS, 1 ½ gal. and 1—1 gal. cans, M.D.

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2—Lab. Vacuum Shelf Dryers, with condensers.
3—Rotary Vacuum Dryers, 1½'x 3½', 2'x8', 5'x33'.
2—Rotary Steam Tube Dryers, 6'x27'0", 6'x25'.
2—Buflovak Vacuum Drum Dryers, 24"x20", 48"x40".
5—Rotary Dryers, 6'x18', 6'x60', 7'x51'.

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4—Sharples No. 16 Stainless Steel Centrifuges.
10—Aluminum Kettles, 40, 60, 80, 100 gals.
4—Stainless Steel Kettles, 80 gals.
1—Pneumatic Scale, 8 Spout Bottle Filler with Single Head Automatic Capper.
1—36" C.I. Plate & Frame Filter Presses, 36 Chambers.
4—40" C.I. Plate & Frame Filter Presses, 44 Chambers.
2—30"x30" C.I. Recessed Filter Presses, 36 Chambers.
1—No. 4 Nash Pump, 60 H.P. motor.
1—Lehman 4 Roll High Speed Mill, 13"x32".
1—Fletcher 30" Suspended, Solid Basket, Centrifugal, 1,200 RPM.
1—Buflovak 6' dia. Vacuum Crystallizer.
2—No. 10 & No. 12 Sweetland Filters.
2—Alsop Sealed Disc Filters.
10—1,000 and 2,000-lb. Powder Mixers, NEW.
6—Baker Perkins and Readco 100 gal. Jacketed Mixers.
7—Duriron & Lead & Havege Centrifugal Pumps, 1" to 3".
2—Mikro No. 1SI Pulverizers.

2—Lehman 5 Roll Roller Mills, 20"x48".
1—100 gal. Pebble Mill.
1—Abbe ½ gal. 10 Jar Mill, Motor Driven.
1—Schutz O'Neil 16" Ball Bearing Style "D" Limited Mill.
3—Hardinge Ball Mills, 2'x8", 6'x22", 4½'x48".
1—Day 18" Ointment Mill.
3—Abbe Bluntergess Sifters.
3—Rotex Sifters, 20"x48", 40"x84".

1—No. 150 Kelly Pressure Filter.
2—Vallez Filters, Lab.
2—American 4' 4 Disc and 6' 2 Disc Rotary Continuous Filters.
6—Oliver 8'x6' Rotary Hopper Dewaterers, New.
2—Oliver Filters, 8'x12'.
6—Shriver, Sperry Filter Presses, 12", 18", 24", 30", 32", 36".
5—Shriver Wood Filter Press Skeletons, 18" to 42".

4—Sharples No. 6 Centrifuges.
2—De Laval No. 600, 700 Clarifiers.
3—ATM 40" Centrifugal, direct Motor driven, perforated basket, 1,200 RPM.
5—Tolhurst 32", 40", 48" Self-Balancing Type Centrifugals.
1—Fletcher Centrifugal, 30" Suspended type, solid basket, 1,200 RPM.

11—Stainless Steel Jacketed Kettles, 60, 80, 100, 150, 300 gal. New.
10—Brand New Stainless Steel Tanks, 100 to 1,500 gal.
6—Pfaudler Jktd., Agtd. Kettles, 100, 125, 200, 750 gal.
10—Copper Jktd. Kettles, 25 to 150 gal., some agitated.
8—Steel Jktd. Kettles, 375 to 1,200 gal., some agitated.
1—60 gal. Cast Semi-Steel Autoclave, agitated, 3" wall.
1—Zaremba Copper Evaporator, 500 sq. ft. vert. tubes.
5—Copper and Steel Vacuum Pans, 2', 4', 6', 7'.
5—Evaporators, single to quadruple effect, 500 to 10,000 sq. ft.

TABLET MACHINES

6—Stokes "T," 1½".
2—Stokes "R," 2¼".
2—Stokes Rotary DD82, 1 3/16".
10—Stokes Rotary D4, 31/32".
1—Colton Rotary, ¾".
1—Mulford Single Punch, 1¼".
6—Stokes "F," ¾".
5—Colton Single Punch, 5/8".

All the above practically new, ready for prompt shipment.

1—Day No. 10 Imperial Double Arm Jacketed Mixer.
5—Day, W. & P. Readco Double Arm Mixers, ½ to 100 gal.
1—Readco 4 gal. Stainless Steel, Double-Arm Mixer.
1—Robinson 4,000 lb. Powder Mixer.
5—Bantam and 1-SI Mikro Pulverizers.

6—Nash Vacuum Pumps, AL-572.
2—Knapp Automatic Can Labelers.
1—Filler Machine, 4 Spout Filler.
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OPD Washington Bureau

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A copy of the publication, Miners' Circular 57, "Health and Miscellaneous Hazards in Metal Mines" can be obtained only from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., at 20 cents per copy. The circular is not for sale by the Bureau of Mines.

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Esso Develops New Aromatic Solvent

Development of "Solvesso 150," a new aromatic solvent, has been announced by the Esso Laboratories of the Standard Oil Development Company, research organization of the Standard Oil Company of New Jersey.

The company claims the solvent, which has an initial boiling point of 370 degrees Fahrenheit and a flash point of 151 degrees Fahrenheit, is particularly applicable to high baking types of finishes where slow evaporation is important. The product is being produced at the company's Baytown, Tex., plant and is available in tankcar quantities.

Midwest Chemical Formed By J.E. Anderson

Julius E. Anderson, assistant manager and chief chemist of the stearates division of Witco Chemical Company, has resigned to organize the Midwest Chemical Company. The new firm, whose offices are at 62 William street, New York, will act as brokers in chemicals and pharmaceuticals, branching out to manufacture pigments and photographic chemicals late this year.

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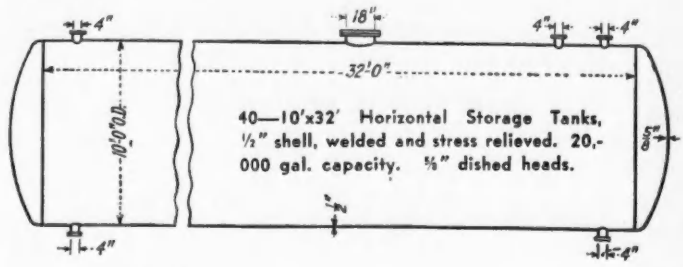
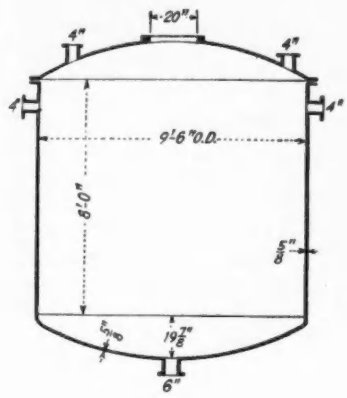
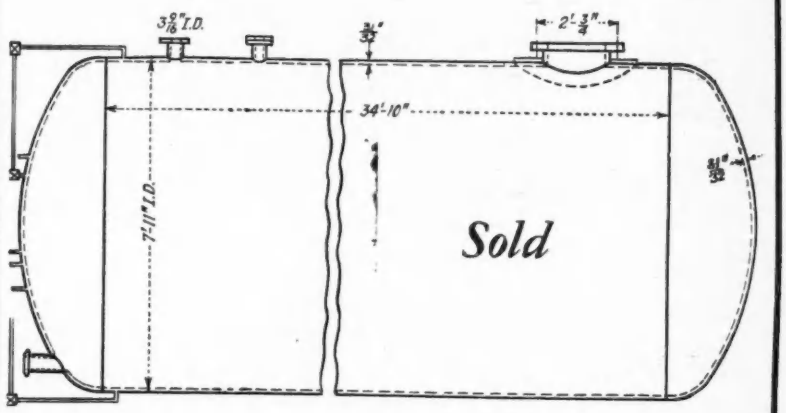
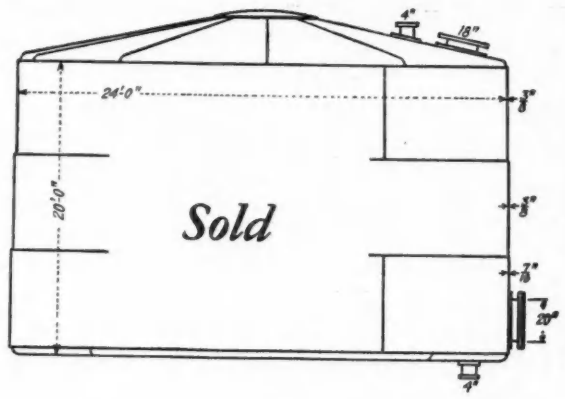


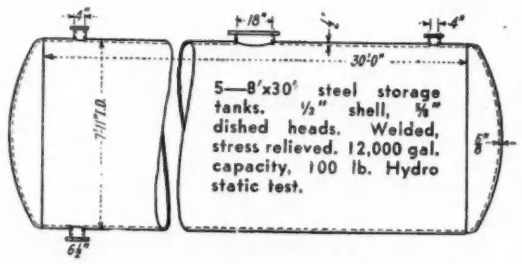
40—10'x32' Horizontal Storage Tanks, ½" shell, welded and stress relieved. 20,000 gal. capacity. ⅝" dished heads.



6—9'6"x8' straight side, 4,800 gal. vertical warming tanks, shell ⅜" thick-low carbon steel, welded, stress relieved. Flanged, bolted dished head, 60 lb. test pr. 2" coil 7' dia. 5½' high inside bottom of tank. Complete with 5 HP-3-60-220/440 v. TEFC motor dir. connec. to Phila. gear reducer with agitator.







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